#### MOFFET-WELL:

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OR,

A Topographico-Spagyricall defcription of the Mineral Wells, at Moffet in Annandale of Scotland.

Translated, and much enlarged, by the Author

MATTHEW MACK AILE,

Chyrurgo-Medicine.

Avallo, The

### OYLY-WELL:

O R,

A Topographico-Spagyricall description of the Oyly-well, at St. Catharines Chappel in the Paroch of Libberton.

A CHARACTER of Mr. Culpeper and his Writings; by the same Author.

Fælix qui potuit rerum cognoscere causas.

Edinburgh, Printed for Robert Brown, and are to be fold at his Shop, at the Sign of the Sun, on the north-fide of the Street, over against the Cross, 1664.

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TO

THE RIGHT HONOURABLE,

## WILLIAM

Earl of

### MORTON

Lord Dalkeeth, one of the Members of His Majesties Honourable Privy Council in Scotland.

Right Honourable,



Hen I do usurpe the memory of your Lordships most undeserved courteste, in admitting me into the number of your Lordships favourites, by appointing

me to attend the Sheriffdom of Orkney, as a publick servant unto your Lordship and A 2 the

the Gentlemen there; I am perswaded to believe, that fince your Lordship hath condescended to own me in so considerable a manner already, I shall also be patronized in publishing those following discourses, (although they contain many fragile conceptions, and fuch things as will avert all popular Euges in this age, wherein Mr. Culpeper hath been, by the ignorant, more highly esteemed than both Hypocrates and Galen) and be indempnified for demanding the same; your Lordship being the fittest person upon whom I could pitch for patronizing of them, (the first being a Tranflation and enlargement of the description of Moffet Well, which I performed fince I was dignified to do fervice to your Lordthip) but more especially, of a description of a Well, which was so highly esteemed of by His Majesty, King Fames the fixth of blessed memory; and of a reprehenfory discourse, of most unchristian and treafonable expressions, which were penned by Mr. Culpeper in the hour of darkness and rebellion: because descended of the most ancient and noble Family of the Douglass,

Douglass, (which hath ever been most fer-tile of magnanimous souls, whose signal and fingular loyalty and courage, did eved them unto the highest pitch of honour. both at home and abroad, throughout all ages, fince ever they were known by that name; fo that Fame doth glory in having that name lifted in her Legend) and of your Lordships most exact corresponding the most fincere loyalty of your immediat Ancestors, at this time, when the demolished MONARCHIE of Great Britain hath been a re-edifying. I will, in the next place, add this most cordial wish, that it would please the Almighty to preserve your Lordship, in those your younger years, and to prolong your dayes to the utmost extent of possibility; and that all the Honour and noble Enduements of your Predecessors, being multiplied upon your Lordship, your Fame may never know another feafon than a fpring. In the mean time, all that I beg, is your Lordships favourable acceptance of this poor offering, from him who is most zealously ambitious, with all the circumstances of gra-A 3 titude

The Epiftle Dedicatory.

titude and possible observances, to make good the Title of,

My Lord,

Kirkwall, Your Lordships most humble and unseigned servant,

Matthew Mackaile.

THE



The Author, his

### APOLOGY

For the

### TRANSLATION:

Courreous Reader,

He multiplied regrates of some, and reiterated folicitations of others, who were desirous to understand those mysteries of Art and Nature, which we had wrapped to (as they conveised) in an inexplicable Idiom

of a forraign Language (because of the deficiency of Dictionaries, as to the vocables of Art) have been the main, if not the only insitement which made us set about this Translation; which we have not performed superstitionsly, translating all the Sentences thereof ad verbum; but so, as the meanest capacity might understand, that which was (possibly) more obscurely expressed in the Original s such as is that Sentence, Page 15. Menstruum Rhabarbaro assusum, & which a young

The Author, his Apology

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going Gentleman ( being imployed by a Chyrur-gian, equally verfed in all Languages excepting bin vernacular, to translate the Original into English) who was newly dignified to be a Master of Arts, translated shus, When Rubarbe toucheth a womans courfes. Moreover, We have in feveral places made additions, which were furnified by our Asurepa opprinuara, the Architect in rearing this new pile upon the old foundation. It being an opinion long ago profeminated amongst the Valgars, That Translations prefent the life of their Text at as great a disadvantage of diffimilitude, as the back-fide of Hangings exhibite the story inter-woven, ( 4 1 remember Dr. Carleton faith in bu Spille prefixed to bu Translation of the Magnetick cure of Wounds ) we are confident, that the too accute feverity of fome, who have not been hitherto deficient to infeft the tender buds of our former intentions and allions for the bettering of others, With the virulent blafts of detraction (which proceed from the most correfive Zone of envy ) will affoord no better entertainment unto thefe flender adumbrations , then it did unto their firft draughts wieb Roman Oyl. But baving attained unto a firm refolution of undervaluing the censures of such malevolent Criticks, we have been much allicited to communicat thu Translation, ( lending it forth in dias luminis auras ) by fome , whofe innate candor did not only affoord, unto the Original, fuch approbation as did obstetricat it into the world; but

#### for the Translation.

but also did nutricat it with sincere acceptation. This Insant therefore baving attained unto more years and a bigger stature, we have given it a new sute of ordinary Scottish Livery, that it might not (being in a better equipage) decline the doing of service to the meanest of our Countrymen who should require the same: and this is the unseigned desire of,

Thy Servant,

TO

To his worthy and much honoured friend Patrick Hepburn, the most skilfull Aportecary, at Edinburgh.

Worthy Sir,



He first seeds of Spagyrical Pharmacie, being sown by you into the field of my understanding, I do most humbly confectate unto you (who have been praching Chymistry these fixty years) these their first fruits

(which are most justly yours) as a perpetual teflimony of my due gratitude and observance; defiring most earnessly, that you would theerfully accept this little offering, and permit your reverend Name to be thus inferred at it's beginning; that, is an Amules, it may banish envy, and apease malice. In the mean time, I shall pray, that the Almighty would be pleased to prolong your life for the good of your Relations, and of His own people; and that at length, when you shall be full of dayes, He would crown you with glory and immortality. Fare-well.

Edinburgh, Feb. 4. 1659. Your most observant friend and servant, Matthew Mackaile.

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TOTHE

# READER.

Courteous Reader,

I

Eing these delectable things which fol-low, were learned only from the operations of art and nature, I have permitsed them to take their flight from the dungeon of filence, into the luminous air of publick view; that (if it be possible) they may prove profitable unto others; at least, that they may excite such as are more experimented in this art, to ellay an inquiry into the natures of the rest of the mineral Wells, with which our Country is abandantly furnished, and much adorned; they giving no (mall ground to suspect, that the earth is replenished with variety of minerals. And seing the earnest desire I have after promoving the knowledge of truth, and the good of others, did ob-Stetricat thele first labours into the world, I do earnestly increas for a cheerfull acceptance of them, and that you would swadle them in a favourable confirmation, and not expose them to the brumat farpnofs of mockery or detraction : For they Contasm

contain the rudiments of that nature-imitatingart Chymic, being only taken from the refainter,
part, which is subservient to medicine; and make
no mention of the Transmutation of Mettals, Potable Gold, and the Philosophers Stone, &c. Concerning which many things which are false, ridiculous and inconsistent with reason, have been
spoken by some, and with which others did, and yet
do, egregiously decrive the world: For which some
have been desorvedly forced to finish their dayes
upon Gibbets. And thus is the reason for which,
Artists are by some called decrivers, and by others
sools; as appearant in Florentius Schoonhovious
his Emblem concerning Chymists, (to which he
subsynesh this verse;

Dum certis incerta fequor, rem prodigus omnem Converti in fumos & miferos cineres.

That is,

Whil'st that by things most sure, such as uncertain I seek, by (monk and ashes I'm deceived far) [are

And in its commentary in thele words, Alchymic, that amiable madnets (whole fure companion is poverty and labour in vain) familiar to the curious, its vanity doth hence appear, eva in promising such things as nature can neither suffer nor attain unto, whilst it laboureth to over-turn the natures of things, by making a Philosophers Stone (as they call it) which will torth with change all bodies in-

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to Gold or Silver, at their touching it .-- The miserable Alcumift, who hath spent all his dayes in trying of experiments, when all that he had is fpent, and converted into smoak and ashes, in his old age he becometh raged, covetous, alwayes favouring of Sulphur, and Paralycick, through his continual handling of Mercury, getting nothing but painfull and forrowfull fighs; because his labours bath produced nothing but errour, lofs and shame. But I hope, that it fall afterwards clearly appear to all ( Momus and Zoilus only excepted) how wrongously these things are afferted concerning all Alcumilts. Laftly, feing we do nos profess our felves to live without the confines of humane fallibility, we do humbly intreat all such, as know any things of greater worth, and more confonant to trath, than what we have fet down bereafter (for, two eyes or moe, will fee better then one ) that they would upon the same account, communicat them unto others. If thus our labours hall work upon (nch, we shall (possibly) be abereby excited to fet about forme other task, no lefs profitable to others. For we believe, that all good endeavours are praise-worthy, although their events be uncertain. Fare-well.

Mome favere decet, prodesse volentibus : ergo Carpere vel noli nostra, vel ede tua.

That is,

Mome it doth become thee well, To favour such as would do well: Then either give to others yours, Or cease to carp and censure eurs.

#### Ad Lettores.

Omnibus hac unima conumina prima modefta. Grata superveniant, quos nova scire suvat.

That is

I. W.

These first of ayes which the modest mind bath Accepted be, by such as novels cover. (offert.

To

To his most accomplished Friend and worthy Comrade, Mr. Matthew Mackaile, upon his elaborat description of the Mosfeet and St. Catharines Wells.

Ngenious foul, who'll not admire thy skill? Who thus anatomifest with a quill, Dame natures hidden cabin, and displayes Treasures, beyond the conquest of the bayes. Such foveraign wealth, as miracles performs; Reftoring death to life, and calming ftorms, Raif'd by intemperance: Thy water-brooks Refresh the panting heart and fainting looks Of anxious valetudinaries, thou Constrain's the Peasant rude to make a vow, And from earths hidden cavern, then doft bring Him health and ftrength to pay his vow and fing. Thy Lynx-ey'd intellect receives no ftop From intermedes; but thou, that well for'd-fhop. Survey can'ft in a minut ; and from thence, Bring foversign Antidotes with fmall expence :

And from things delpicable, like the Bee, Sweet remedies prepare ; strange industry ! And yet more ftrange the bounty of thine hand. To firm fuch treasures up and down our land : And in fuch form, that every vulgar Eye, From hence may learn profound Philosophy: Whereas their fole Monopoly were able, To bring thee fame and wealth ineftimable. What inspiration moved thee to make Poor morrals of their Makers skill partake? I'lt gor enough that they His foot-flool trend? But must they also know how He it made? Sure, providence referv'd hath thefe displayer. To give them life in these our haleyon dayes And hath defigned thee likewife to be Her message bearer to posterity. O may thy viregous foul receive the fruit ! Of these the labours, and of thy wit acute ! And may each barking Momus blash to see The luftre of the ingentity, That fo thy nimble Pen may never fail, Till myriads of pens thy lofs bewail-

In amoris testimonium sie conatus est.

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# PREFACE.



Hat the following description of Moffet-wells may be the better understood, we thought it necessary to premise some things concerning the elements of Chymie.

i. There are six simple (though Physically, of the four elements composed) bodies, whereof every Animal, Vegetable and Mineral body is composed, and into which they are resolved, by destillation and calcination; and they are these. I. Earth 2. Phlegme, or the insipide Liquor. 3. Mercury, or the acide Spirit. 4. Sulphur, or the combustible Liquor. 5. Volatile-salt, which cannot endure the fire, but styeth from it. 6. Fixed-salt, which resistent the strongest of Vulcan's

fury (his vitrifying heat only excepted) without any damage. The last four only are called Elements (by way of excellency above the rest) because they only are endued with medicinal virtues,

2. The foresaid bodies are called simple; because they connot be resolved into heterogeneal parts, by destillation, without the adding

of a heterogeneal body.

3. Mercury, Sulphur, Salt-volatile and Fixed-falt, are called the elements of all the forefaid Bodies, because they are composed of them; but not because all of them can be extracted out of any body, and made obvious to the senses: for, there can but a little Nolatile-falt be extracted out of some things, and very little Fixed-falt out of others. In the Original we afferted, that there can no Volatile-salt be extracted out of man's Blood: but having since attained a more exact manner of destitling the blood of Animals, and separated some Volatile-falt (which attacheth it felf to the sides of the recipient, like Spiders webs) from them, we do retract that affertion; having in the Epistle to the Reader profesed, that we did not live, without the confines of humane fallibility. But

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But it is ordinarly, in greater abundance, extracted out of the hornes, feathers, &c. of living Creatures. Likewise, there can be but very little Fixed-last extracted out of these, unless they be taken in great quantities, and put to a tryal: for, where the Volatilesalt doth abound, there is little of the Fixedsalt, and contrarywise.

4. The Earth (which they call the dead head) is, as it were, the subject of the fore-Jaid Elements, and is of no use or virtue, when the Elements are separated from it.

5. Philegme is only the carrier of nourishment to the Elements. As for example, water is only the carrier of that aliment, which Vegetables and Minerals do suck out of the Earth for their nutrition; and it is the carrier also of that nourishment, which living Creatures do extract out of the parts of Vegetables and Minerals, as the Philegme of Wine is, only the carrier (or chariot) of those active Spirits, which do exhiberate the heart of man.

6: It is not only certain, from the Chymical resolution of bodies, that the forementioned Elements have great existence in nature, but it is also naturally known to all B 2 Cooks Cooks; for in their dressing of Meats, they labour to supply the penury of Sulphur, Mercury and Salt, by adding Butter, Vinegar and Common-falt, in making of Sauces.

7. In the resolution of any natural Body (that is in a natural estate) by destilling, the Phlegme exfilleth firft; 2. the Mercury; 3. Sulphur; 4. Salt-volatile; and, 5. the Fixed-falt remaineth in the earthly part, from which it is to be extratted by calcination, Solution, filtration and coagulation. Neither doth this falfific what hath been laid, that in the destilling of fermented Wine (that is, which hath stood one, two, or moe dayes, after i'ts being pressed out of the Grapes) the (ulphureous Spirit exstilleth before the rest: for this cometh to pass, because the sulphureous Spirit ( which is Volatile of it (elf) is separated from the rest of the Elements by fermentation, and is in an unnatural estate, Neither doth any more of this Spirit exstill, then is separated from the Salt, &c. by fermentation. And in the destilling of new Wine, the Sulphureous Spirit beginnetb to exstill, before that the Phlegme is altogether separated; because of the suddain fermentation of the Wine, which can feth the (ulphur cous Cooks

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sulphureous and volatile spirit reject that bond and tye, under which it was formerly: For all bodies, when they are in their natural condition, are alwaies resolved by art, after one and the same manner: that is to say, their elements are still separated in the same order. So that it is probable, that in the destilling of not-fermented Wine, the Vinegar or mercurial-part (which is the true spirit of the Wine: For spirit is first, and most properly, attributed to Mercury, and in the next place only to Sulphur) would exstill before the sulphureous spirit, if the fermentation of Wine could be impeded whil st it is a destilling.

Tou would here take notice of the reason, why the simple spirit of Wine, doth pass sooner and more facilely through the stomach, and occasion less unpleasant erustations from it, than when it is impregnat with the sulphureous spirits of Cinnamon, or other spices. We conceive that this cometh to pass, because the spirit of Wine is a most homogeneal body, which debateth less with the natural heat and statulent vapors, which are contained in the stomach, than when it is associat to the sulphureous spirits of spices: for the more sorts.

there be of them, there is the greater confufion and debate among it them, and betwin them and the forementioned statulent vapors, when they begin to be altered and concocted by the natural heat; and therefore the eructations occasioned by this strife, cannot but be more frequent and noy sam to the pallat, than such as proceed from a less confused and violent debate.

8. The Mercury, or acide Spirit, is the

ferment of the forementioned bodies.

or artificial; and each of the fe, is either fimple

or composed.

I. The natural and simple ferment, is the proper mercury of any simple body (as of Wine, Milk, &c.) which being incited by external heat, doth produce a swelling of the body (whose it is) and a separation of its heterogeneal parts or elements, as the mercury or vinegar of Wine causeth it to swell, and produceth a separation of the sulphur from it self; as also of the salt (contained in the tartar, which doth attach it self to the sides of the vessel) from both.

2. The natural and composed ferment, is made up of the proper mercuries of several

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fimple bodies (as of Cinnamon, Opium, &c. whereof Treacle is composed) and produceth a fwelling of it, and a conjunction of the feveral elements and qualities (of the many different bodies) as it were, into one new nature; and that by fermentation, concerning which

you shall have more bereafter.

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Here you may observe, that a simple body, which hath been fermented, by its simple and proper mercury, may be thus also, as it were, fermented. As, well fermented Wine, being put into a glass (hermetically sealed, or well stopped with a Cork) and exposed to the Sun his beams, in the Canicular-dayes, its mercury or fixed firit, will alter the fulphureous and volatile spirit, and change it into its proper nature, by fixing it; and the sulphureous and volatile spirit, will in some measure volatilise the fixed spirit : for Vinegar thus prepared, is the best and strongest. And hence it appeareth, that the spirit which doth first exstill, in the abstraction of such Vinegar from Mettals, which have been dissolved by it (and which is commonly called the burning spirit of the mettal, and by Angelus Sala in his seventh Aphorisme of the first Sect. a part of the Vinegar conver-

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ed into a burning spirit, like to the spirit of Wine, and the very spirit of Vinegar) is not fo much the spirit of Vinegar, as either a part of the sulphureous and volatile spirit of the Wine, which revivifieth, as it were, by defermentation (if we may thus (peak) for it was fixed by the fixed (pirit of Vinegar, and is now for saken, when it beginneth to operat upon the mettal which it disolveth; or that part of the sulpbureous spirit, which the mercurial had not fixed compleatly. The verity of this is proven by another operation like unto it, viz. in the destilling of the Butter of Antimony out of equal parts of Antimony: and Corrofive-sublimed-Mercury, the Salinous Spirit of the Sublimat, which had before corroded, and united to themselves the Mercury, when they are commoved by a new heat, they begin to corrod the Antimony, and do for ake the Mercury, which they did formerly corrod: for when the fire is augmented, the revivified Mercury exstilleth towards the end of the destillation. Tea, the Butter of Antimony, is nothing else but the falts of the sublimat, by corrosion impregnat with the Reguleal part of Antim ny. For me did convert the Emerick powder

powder (which is made of the Butter of Antimony) into the Regulus of Antimony, and in this operation we perceived no sign of the revivifying of any parts of the Mercury, although it was done by the great violence of fire.

3. The artificial and simple ferment, is the proper and natural ferment of any simple hody, which produceth a fermentation, in any simple or composed body, to which it is artificially applied. As when the juyce of a Lemmon, Wine, or the proper Mercuty of the stomach of a heast do produce the fermentation of Milk.

4. The artificial and composed ferment, is a ferment made of many others, as the common Earning (which is made of the stomach of a beast, &c.) by which Milk is ordinarily

fermented, or curded.

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Here observe, I. that the natural ferment doth sometimes produce a more exact fermentation, than the artificial. As when the natural ferment of Milk doth produce a more exact separation of the sulphur from the rest (when it causeth it pass to the superior part in the Cream, although that separation must be afterwards perfected by motion, in reducing it to Butter) than the artificial ferment, when

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ther simple (as the juyce of a Lemmon) or composed (as the common Earning or Runnet) which do not fo exactly feparat the Butter from the earthy part, &c. of which the Cheefe is camposed. for both the Cheefe and the Whey are most capable of further fermenta-tion, whereby their heterogeneal parts will be exactly separated from each other. 2. 1 is the Mercury, which is excited by external heat, that produceth the fermentation of a body, as doth appear in Milk, which being sufficiently fermented (that is, whose sulphur, &c. are sufficiently separated from each other) contracteth a sharp and mercurial tafte which is gradually augmented, according to the different hours and dayes of its fermentation, as is known to every Rustick, that maketh Butter. Likewise Ale (which is sweet before that it be fermented) doth contract the very like tafte (which doth refide into the Mercury, excited by external heat, and permeating all the liquor, and fixing some of the sulphureous parts; for a great external cold will impede the fermentation or working of Ale) when it is fermented. To thefe you may add, that the Bilious humour contained in the body of aliving creature, is in two respects,

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as it were, a ferment. In respect of the Chyle, it is a natural and simple ferment (for it is generated of the natural and proper ferments of meat and drink) which produseth a Jeparation of it self from the blood, Melancholick humour and Phlegme, and of thefe from each other, by fermentation. And in this resolution of Chyle, Blood anfwereth to Sulphur, Choler or the bilious humour to Mercury, Urine (though impregnat with some Volatile and Fixed-falts) to Phlegme, and Melancholy to the Fixed-falt contained in the earthy part. 2. In respect of the whole body: for it is commonly (yet deservedly) called a natural Clyster, which doth irritat the expultrix faculty of the Intestines (into which it daily floweth, out of its natural receptacle, the Gall) for the purging forth, and separation of the excrements.

From the premisses, you may collect the manner how some purgatives do open the belly. For when purgatives are put into the stomach (as into a Retort which hath a stroup arising from its upper part, serving for the re-assumption of that liquor, which did once exstall by the other, that it may be re-destilled: For the Wezand or Oesophage answereth to

that stroup in the Retort) they are altered by its heat, and by the heat of the circum-jacent parts, and their proper Mercuries, which do exfill by the nether orifice of the stomach. called the Pylorus which answereth to the common stroup of the Retort) do produce a commotion and fermentation of the humours in the Intestines, and thereafter (in the pro. grels of this destillation-like operation) the Sulphur and Volatile- falt being commoved and exstilled, they do (by a certain occult quality, which is only known to God the Creator, and to which the creatures of this Allknowing-God must have their recourse, seing that we know only in part) excite and irritat the expultrix faculty to expell; and when the strength of the purging Medicine, is proportionat to the strength of the body, the bad humours only (which are onerous and most burtfull to nature) are purged forth. For then nature retaineth the good and ulefull humours, although they be commoved with the rest. But if the Medicine be in its strength disproportionat to the constitution and strength of the body, then the good, as well as the bad, are promiscuously purged forth, and that painfully : Because that such things

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things only as should, are not excerned, as [aid Hippoc. lib. 1. Aphor . 2. I faid, 1 . that the occult quality of the Sulphur and Volatile-falt, did irritate the expultrix faculty: the first Liquor only wherein Rubarb bath been infuseds doth purge by irritating the expultrix faculty; because the Sulphur and Volatile-falt are diffolved in it ... 2 That this irritation of the expultrix faculty wought to be ascribed unto an occult quality (feing the Sulphur and Volatile-falt of Lamer, are neither purgative nor womitide) because the Sulphur and Volatile-falt of Rubarb are simple Bodies, which cannot be (by Art) resolved into heterogeneal parts, that the canses of these effects which they produce, might be

But when a Medicine made of Antimony, or such-like, is exhibited, vomiting preceedeth purging by stool; because the abounding humors in the Stomach, which are volatile, (not that they contain Volatile-salt, but only because bilious for the most part, which do occasion a nauseating, by their spontaneous tending upwards, as a bird in stying) are suddenly commoved by the Sulphur, &c. of the Antimony. &c. And not finding a facile egres

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I shall add this affertion to what bath been said; and endeavour to render it's verity indubitable.

The knowledge of fermentation is the great key of Nature, which the Poimer of all things, hath put into the hands of man, for the unlocking of her secret Cabins, that he might, the more clearly behold her greates mysteries.

The truth of this will become unquestion nables if you will but consider, to that thereby he is greatly inabled, to resolve the Bodies of Animals and Vegetables . for fuch are best resolved, when fermentation is premitted. As when fermented Barley affoardeth a most (abtile; active; and ardent (ulphareous Spirit; which it would exhibit under a groffer and oleaginous form, if it should be destilled, without a previous fermentation. And Milk is better resolved into Wig, (which, by destillation, may be converted into an infipid Water and a Mercurial Spirit ) Burter and Cards by fermentation in a Churn, then into unpleafant water, &c. by destillation because of the empyreuma accompanying them! 2: The

2. The knowledge of fermentation difcovereth the reason, why all meats, (whether they be made of Animals or Vegetables) which en are fermented, are more easily dirested and do n nouri h bester, than such as are not fermented. As for example fermented Bread (i.e. four-24 ed) is more castly divested and yielderh better all nourishment, than any other doth; because Co. it's sulphaneous part is subtilized and boofed be by fermentation, which maketh it to be the eff more eafily and quickly separated from the Bread, while it is a convocting in the Sto-14 mach. And ( for the fame reason ) the 1 steffes of all forts of Animals are fireft for 23 being eaten the fecond or third day after their re mattation, as the practice of all doth prove. d. Moreover, do we not delay the drinking of 1 Wine, Sider, Ale, Beer, Go. untill they be t, fermented? for then they do nourish most, ad and are of a most facile digestion, because 53 their alimentary parts (especially the Sulŝ phur) are, by fermentation, loofed from the 1. terrestrial and gross subject, wherein they did 1formerly refide, and are fubilized and evected to a more subtile and spirituous consistence, which rendereth them more plyable to the operation of the natural heat; and are not thefe lubtilized

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subtilized alimentary parts, the thing which doth inebriat a weak Brain, for a little time beld over the Vessel wherein Wine, or Ale, &c are fermenting. It is, certainly, undenyable; because, if Wine or Ale were put into a Still (artificially adjusted) when the fermentation begins to appear, you should (without the assistance of Vulcan) at the end, find some of those Subsile Spirits condensed into an ardent Liquor in the receiver.

In the Medico-Philosophical discourses of Dr. Thomas Willes, (a Physician at Oxford, the perfection of whose Learning, my quill is not able to describe) you will find many things concerning fermentation which were never heard of before, and which are (for the most part) consonant to what is here; all which were but lately published in Latine and came to our hands, two moneths after these, and what followeth, were written. And in them is the nature of fermentation more exactly described then ever.

10. The differences of Colours do proeged from the different degrees of the concoction of the Sulphur, as the colours of Red-roses, Gillosers, Violets, &c. do (withaut doubt ) proceed from th Sulphur which is Deceleged!

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concocted, untill it contract a red, blew, or the like colour, whereof it was destitute, when impregnat only with viridity in the juyces which nourished the Flowers. For, when the Salt of a Vegetable, containing perfectly concotted Sulphur, (as of Worm-wood, Fincle, the Vine, &c. ) is mixed with the tinctures of those Flowers, they do presently contract a green colour; because the Salt produceth an indigestion and recrudescence of the Sulphur. For, the first colour of any Vegetable is green, which proceedeth from the crudity and imperfect digestion of the Sulphur, which becometh red or blew, &cc. when it is further concocted by nature, as it happeneth in the fore-mentioned Flowers, and in the leaves of many Vegetables, as of Trees, &c. which become yellow, &c. when they attain unto maturity. I faid, 1. The falt of a Vegetable; because no Minerall-salt (as Nitre, Amomiack, &c.) doth render the Vegetable Sulphur indigested. 2. The Salt of a Vegetable, which containeth perfectly concocted Sulphur; because the Salt of Scurvygrass (which is a Vegetable, not containing perfectly concected Sulphur) or (uch like, de not render the foresaid Sulphur indigested.

You may observe by the way, that the Spirits of Nitre, Common-falt, Vitriol and Brimstone, do perfect the forefaid tinctures which were made green, by re-investing them with their former colours; although the fame Spirit of Brimstone, ascending from it in smoak, when it is inflamed ( for the forefaid Spirit of Brimstone is nothing elfe, but the smoak which ascendeth from inflamed Brimstone, and is afterwards condensed into a Liquor, as you shall hear ) doth albifie a recent Red-Rose; and the Oyl of Tartar will invest it with greenness, if it be a little broken and infused in the Oyl. We acknowledge, that we have never, as yet, attained to the knowledge of the causes of these rare and wonderfull effects; especially seing we are of opinion, that the fore-mentioned Liquors and all Salts are not hot, but cold, as shall appear hereafter.

We said before, That the differences of Colours do proceed from the different degrees of the concoction of the Sulphur; or from the alterations produced in the Sulphur, by the actions of corrosive bodies: the truth of which assertion we will further essay to demonstrat, by shewing (according to our own opinion) the manner have Blood.

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Blood, the different forts of Bile and Me-

It is unigarly afferted by Physicians, that excrementations Bile is of four kinds, viz.

I. Bilis Vitellina, which is generat of yellow Bile.

2. Porracea, which taketh it is original from the Vitelline.

3. Æriginosa, praceeding from the Porraceous.

4. Glastea, which owether is original to the Æruginous; all which they affirm, Majori semper adustione generari, & plures caloris gradus acquirere. And concerning Melancholy they write thus; Dum Melancholia excrementitia præter naturam se habet, atra Bilis apellatur, quæ serventissima est, & acerrima; & ex Melancholia naturali, Bile slava, sanguine, vel pituita salsa generatur,

We humbly decline the giving of our affent unto those opinions, though generally received by the ablest of Physicians; and will in the like manner offer our own, to which

we will premit the fe two affertions:

domine, are cold and moist; as will afterward be proven by several arguments.

be proven by several arguments.

2. Every Liquor is salt, acide or sharp

(i.e. actis) because of the admission of Salt.

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Thefe things being premised, we are of opinion, that Blood containeth Sulphur, Salt, Spirit, &c, but more Spirit and Salt, or Salinous Spirit than Sulphur, when the Chyle is first converted into blood in the second concoction, because this Salinous Spirit is to ferve for other uses, than the alimenting of any part : for, in the fecond concoction, it is the chief agent in producing the red colour of Blood, by it's action upon the Sulphur of the Chyle. Moreover, another part of it. by operating after another manner upon some other part of the Sulphur, produceth the yellow colour in Bile ; which being generat , is fent to the Gall, that it's gradual emanation from thence, may (like a natural Clyster) irritat the expultrix faculty of the Intestines. Lastly, another portion of it, by altering a third portion of the Sulphur, produceth the blackish colour in the Melancholick humour, which Nature maketh retire to the Splen, that by it's crasser parts, it may aliment the Parenchymatous substance thereof; and by it's more subtile and penetrating parts, it may promove the digeftion of the Stomach, &c.

The truth of these things will easily appears to any who will be at the pains to observe

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the destillation of Honey, and the gradual alterations of the colours in the Liquors exfilling; to which operation of Art; this of Nature (viz. the generation of Blood, Bile and Melancholy) may be well compared, because of the great resemblance which is betwint them.

Moreover, none will question the truth of our former affertion, if they will but confider, that as of the juyce of Celledon (which is of the colour of Bilis vitellina) the green leaves of it are made, when it is further concotted by nature, and thereby it's Sulphur doth suffer a new alteration, by the action of it's acide spirit upon it, whereby the Vitelline (or yellow) colour in the juyce, is converted into a green in the leaves. Likewife, the Mercurial, Acide and fermentative part of Bilis flava, by producing a new alteration upon the Sulphur, it depofeth it's first yellow colour, and acquireth a Vitelline, which is a darker yellow. As also, the green juyce of a Leek is generat of the white juyce contained in it's root, then it's greener leaves, inclining to an Eruginous colour, likewife it's whitish Flowers; So is the Porraceous Bile generat of the Vitelline, the Erugi-C 3 nous

nous of the Porraceous ; the Glatteons of the Eruginous, and the black or Atra Bilis of the Glasteous, and that without any adu-Rion : Por wood which is a little burned, be. cometh black Char-coal and when it is fully buent, it is converted into white after. Should he not deservedly be termed the most xidionlous of Naturalists, who would affirm that the redish colour of Copper and yellow colour of Brais, aras by adultion, converted into a green colder & when they centrack their green ruft I which is commonly called Kill go) byreafon of the action of Vinegar apon them. Likewife, that the brounish colom of thetindure of Nuo-galls, is, by adultion, converted into a black colour, when Vitriol is mixed with it in making of Ink. This is fo well known to Dyers, who (not by uftion, but by the admission of Salinous Bodies, which do so operate upon the Sulphurs of others, that they chapge them from one colour ente another, and fo communicat Wivers colours anta one and the fame Cloath; that if any of them did understand the actions of acide spirits upon fulphureous Bodies , they would affirm that opinion, cancerning the transmutation of colours by ustion, to be cachinno dignam Here

Here we cannot but mention two confiderable things, and offer our opinion concerning their causes. The one is concerning some Vegetables in general, and the other concer-

ning the Houseleek in particular.

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As to the first, it is vulgarly known, that there are many Vegetables, ( as the Houfleek, Ivy, &c.) whose leaves do not fade or wither in the Harvest or Winter, but do remain as green and succulent then, as they were in the Summer. We conceive the caufe of this perennal viridity is two-fold. I. The imperfect concection of their Sulphur, which f as you read a little before ) perpetually accompanieth viridity in Vegetables, and is not capable of evaporation ( as is the Sulphur of other Vegetables when they come to maturity; that is, when their feeds are ripe ) fo long as the Vegetative life is not extinguished; becan le of it's more frist union with their falts. which do detain it, and fo prohibiteth it's avolation. 2. The falt of those Herbs, being more nitrous than the falt of other Herbs, it is more firmly united to the Sulphur, (which in such, is ftill more refinous, as in the Fir-tree, &c.) and therefore doth more frongly detain, not only the Sulphur, but C 4 alfo also the aqueous humidity from evaporat-

ang.

As to the second, it is well known, that the Hous-leek, being suspended in the air with it's roots, doth not at first wither, as Wormwood, &c. but accress to a greater bigness, shooting forth new leaves and a stem. Before we offer our opinion concerning the reason of this, we will first acknowledge, that this accretion is not a proper growth, (as when the roots received aliment from the earth) because, as one or two leaves da pullulat from the top, as many at the root fade and become dry. These leaves therefore which do germinat from it's centre, do not fring forth becaufe of any nourishment which the root doth receive from the ambient air; but, because the juyce of the root and former leaves doth sede into new leaves and a stem : for they do wither more then if they had been separated from one another, and dryed apart. But in progress of time, all the Herb fadeth and oeaseth to germinat any more, by reason of the totall exhalation of the vegetative Spirits and their aliment, by in enfible transpiration. For the same reasons, the Onion, being preferved in a convenient place all the Winter,

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fadeth but little, and being suspended in the air, in the Spring it shooteth forth new teaves, which are alimented by the remainders of the subtile Sulphur and Volatile-salt, which hath not been exhausted by evaporation.

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From what hath been faid, it appeareth impossible to make the magisterial Powders of all Vegetables, according to Dr. John Zuelfer ( who did lately reform the Augustan Dispensatory by his Animadversions thereupon) his Prescript, in these words, contained in his Animadversions upon the composed and simple Ballams ... Take ( auch he ) of the leaves of Rue or Red-Roles, most richly endued with their native colours, as much as you please; and boyl them in water, adding a sufficient quantity of the Oyl of Tartar: Add to the strained decoction water impregnat with Allom, and a thick matter like Pulle will precipitat or fall to the bottom, and if the Herb was green, it will be green, and if red, it will be red, as in Roses and such like Flowers : because the oyl of Tartar is the falt of the Vine converted into an Oyl by deliquation: neither doth the dissolved Allom reduce the green tineture unto redness.

The

These are the things which we thought expedient to premife; and concerning which me maft saknowledge, that there were but some of them at first intended, and the others occur. ring unto us as consequences from the rest, or worthy the inferting, bave made this Pretace of a biguels disproportionat to the following Book & Concerning which fome rigid Momu will possibly say, as Diogenes Laertius de vita Philosophi, lib. 5. affirmeth the Cy. nick Diogenes to have faid, when he came to the Gity Myndus, and fam a little City and magnificent Ports, Viz. Vin Myndii, Portes claudice, he Urbs vestra egrediatur You Myndians, flut your gates, left your Town rum out by them. I unfiver, that it is some times most expedient, that it be foin some rufich Buildings ( fuch as this is ) ofpecially where there we much Cornes and Hay to be carried home upon great Waggens 3 And therefore I do intreat the courteaus Reader, not to confure me too much, feing I have been necessitated to take in confiderable store out of all the three Families of Animals, Vegetables and Minerals : And in confidence thereaf, I will now fet about the describing of the Wells.

Moffet-



Moffet Strell

## M. On For For T. W. E L. L.

A Topographico-Spagyricall description of the Mineral Wells at Moffet, in in Annandale of Scotland.



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E thought, in fitting to prefere
you first with a Taper subject
delineation of the Wells, and
to declare the maner of their
becoming notour thate men,
and then to subject the grade

Six years ago, a valetudenary Rustick (ast was credibly informed) who was accustomed to make an anniversary it increation to the Wells at Brang-ton, as he was travelling through Annandale, no felt a smell like to that of Brangeon, wells, which made him walk contrary so the wind, following the smell brought thereby; and then upon the top of a little Rock (which nature both scienced north-wards, and at the distance of one mile from Moffee) which was covered with mire and clays he discovered two little Spring-wells, the meather and

and biggeft whereof, is distant from the steep Rock by whose fide runnerh a little Burn, into which the Water descenderh ) about two or three foot, and the upper about fix or feven. When experience had induced him to believe, that thefe Waeers, were, in their qualities and operations, mok like unto the Waters of Brampton, he recommended them to his friends and acquaintance, afferring that they were enriched with the like and many other virtues; So that within twelve moneths after, all forts of fick perfons did begin to refort unto them, and that from all places of the The manifold commendations which I did every where hear attered, concerning their virtues and effects, did beget in me a longing defire after a fight and tryal of them; especially seing I could never hear from any, of a reason for the vulgar opinion concerning them.

Two years are not yet expired, fince the Earl of Hartfield, (to whole former citles of banonr, His Majoffy, fince His happy reftoration to the Government of this His ancient Kingdom, hath added the Title of Annuadale, because of his Lordship and his Ancestors, their singular Loyalty) was pleased to command the dreffing of the Wells; So that the entry into them is much bettered, and their diversity is made more perspicuous, by the removal of the clay, and the surrounding of them with a wall.

The flones of the upper Well are white and crystalline, and the neather bath blackish stones, not much unlike unto the mark ofte of Antimony. Thus

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you have the Topographical description : Let us proceed unto the Spagnicall.

The limpide Waters of the Wells of Moffee are impregnat with the putide Sulphur of Anti-

mony, Niere, and natural Salt- Amoniach.

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We shall, 1. illustrat this affection; a. Prove it's verity by the strength of reason and experiments; 3. We shall manifest the faishood of the common opinion; 4. answer some objections; and, 5, give some rules concerning the use of the Water.

And first of all we say, that water which is impregnat with Nitre doth extract the Sulphur of Antimony, whil's it passet through an Antimomonial Mine. 2. As this water which is impregnat with the Sulphur of Antimony, passet through other veins of the Earth, it encountreth some Salt-Amoniack (or Salt, which by coagulation cometh of the Urines of the (almost) innumerable Beasts, which live in the circum-jacent Moors: for, the artificial Salt-Amoniack is made of the Urines of Beasts) which produceth a precipitation, indigestion and putide smell into the Sulphur, through it's suddain fermentation.

I will now prove the verity of the affertion.

And, I. I say, that the affertion is most probable; because the water wherewith the Saffram of Mettals (Crocus Metallorum) which is Austimony calcined with Witre, was washed, that is, wherein it was for a long time boyled, hath the same smell that the Water of Mosses-wells hath, when

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when some drops of Aquarregia (which is made of Aqua-forth and Sale-amoniach) are instilled into it. Now the smell of the water of the Wells is made like to the smell of the dross of powder, which remaineth in Guns which have been often that:

. . This artificial Water tindureth Silver, as the

water of the Wells do

phut of Antimony, which is redifficult of the forerather the Antimonial atoms, wherein the forefaid Sulphur doth refide. And the stones of the Upper-well are covered with a matter, very much resembling the same.

coloured like susamony, and fome of them de contain a merallick like matter, which doth fein

gillar almost like unto Antimony

deth into the preterlabent rivolet, a matter whi eish and salinous (and without doubt Nitrous wherein the diuretisk virtue of the Water to sideth) doth attach it self unto the rocks.

6. There appeareth no such marter upon the nocks, by which the water of the Upper-well descended, because the takish and sentillating from the Well-have already detained and separate the same from the Water.

17. It is hence probable, that the Sulphur of the Upper-well will evaporat fooner, then that of the Seather; because it's Water containeth but little falts.

falt, which should detain the evaperating Sulphur : for falt detaineth Sulphur , and the fmell proceedeth from the evaporating Sulphur, as shall afterwards be proven.

8. Before the evaporation of the Sulphur, the water doth not depose its falt upon the rocks : elfe it would be attached to the very inmost stones of the Neather-well (which is falle) as well as cothe outmoft.

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9. The whitilh stopes of the Upper-well are nitrous and Antimonial: for when their double quantity of Natre is added to them, and they afterwards calcined in a Mortar, they take flame after the fame manner, that Antimony calcined with Niere doth, and become like unto Diaphorenick Antimony.

10. Whill this mixture is a calcining, it meleeth and boileth as Allom cast upon a hor Iron, and

contracteth great faltness and acrimony.

11. When I was calcining one of those white stones (gifted by a friend) with its anatiek quantity of Nitre, and when I had caused pulverize the fame, and mixed it with fountain water, there did immediatly arise a smell most like to that of the Wells.

12. When a little destilled Vinegar is instilled into the water wherewith the Saffran of Messals was washed, the like smell and precipitation are produced; and this mixture doth inquinas Silver

with the colour of Capper.

13. The putide sulphur of the water of Mosses. Wells doth still evaporat; so that within few dayes the most limpide water is lest destitute of all smell.

doth likewise evaporat; yea, the simple water (without Vinegar) wherewith the Saffran of Adorrals was washed, becometh destitute of all putide sulphur, when it is preserved for the space of three or sour months: because it doth evaporat out of the alien humide body, and relinquisheth the antimonial atoms (wherein it did reside) separable by precipitation, upon the copious assuments of fountain water.

15. From whence proceedeth the vomitive and purgative virtue of the water, if not from An-

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timony?

We do therefore reject the common opinion, viz. That the fore-mentioned water runnels through mineral (ulphur or Brimstone, and that

is borrowest its putide | mell from it.

But seing Dr. Andrew Baccius (a Roman Physician, in his fourth Book of hot Bashs, and fixed Chapter, entituled, Concerning places or water that are abominable, in either taste or smell saich, that there are two general causes of alth stink of terrestrial things, whereof the one is passed, as they say, by the mixture of a thing naturally putide; and the other accidental, and hypof rottenness; and doth presently subjoys. That almost the whole substance of Sulphur (by which

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ya, (by which, me thinks, he can understand no other thing than Brimstone) confished in a rotten [mell; and that the mixture of it with earth or water, is the first and general cause of all abominable smell and taste (yea, of natural rottenness, as he writeth a little after) but that the second cause of any stink is putrefaction, which is contrary to digestion and concoction, as saith Aristotle, viz. the corruption and indigestion of the proper and natural temperament, caused by external heat. In answer to which, we reply,

1. There is no body naturally putide : For, that Stinking fmell which is called puter, is the ingrate fmell which proceedeth originally from the forefaid rottennels or putrefaction wherein the fubfrance of Brimftone cannot confift; feing that pupar isoonly a quality and accident of a body : Now nature did never produce any kind of body naturally stained with any such spot as rottenness is ; Bur that the loxthfome fmell, called puter, doth proceed only from rottenness (by the Latines called puritde) and that the name puter is only given to its ingrate fmell, hence appeareth; in that the multicude of Anthors do call bodies, which are naturally indued with an ingrate fmell, not puride, butferide, as Affa fætida, Atriplex fætida, &c. whose fater or flink, is a good and medicinal quality; by nature conferred upon them, and not & quality confifting in the corruption and indigefion of their natural and proper temperaments, by external hear. But they call Ulcers (whose ingrate

grate smell proceeders from the corruption of the natural temperament by puttefaction) putide, and never fetide, as doth Sennereus, Tom. 3. lib. 5, pag. 2. chap. 5. at the beginning, and through the whole Chapter, he calleth these Vicers, which he describeth, putride, and never fetides. And Weckerin, Syntax. Medic. utrial que tib. 3. pag. 743. concerning the curing of external disease, and, in particular, of the sordide and putride Vices. He calleth an Vicer that putrifieth the member, sordide, putrified, and putride; although he saith, that from such an Vicer ariseth a fetide and cadaverous smell, which we think improperly called fetide, seeing it is not natural, but hath its original from putrefaction.

any smell; and that is not inflamed, hath scarcely any smell; and that smell which it hath, is not ingrate. Therefore the whole substance almost of Brimstone, doth not consist in an natural stink called factor, much less in a precer-natural called puter; especially seing it is a natural and cerestrial mixed body; and a proper species or kind, intended by nature, as the same Author consessed in the beginning of the second Chapter of the same

Book.

3. We shall bermetically explain the forementioned purrefaction, which the Mather hath ariffetelically described, by saying, that the purrefaction of any body raketh its rife from the sementation thereof. As for example, When the recent Urine of a man, or Flesh which hath never been

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falted, or keeped for the space of one month longer, whilst they are fermenting, they putrifie; that is, the digested or concocted Sulphur, being by the internal Mercury, and the external heat inciting it, solved from the rest of the Elements, it beginneth to become indigested, and to evaporat; that is, to evanish, and then beginneth putrefaction and the putide smell, from the action of the Air, upon the evaporating and recrudessing Sulphur: for, where there is almost no combustible, or perfectly digested Sulphur, as in some Minerals and Mettals, there is no fermen-

tation nor putrefaction.

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From what bath been faid, it may appear, that fermentation is twofold, t. When by the strength of the internal Mercury and external heat, the confused and naturally mixed elements of a body, existing in its natural estate (as of recent Vrine, and fuch like) are folved and separated from one another: For, the folved, recrudescing and evaporating Sulphur of fermented Urine and Fleft, favoureth unpleafantly. And the fulphureous (pirit of fermented Wine is separated from the falt. contained in the Tartar; and the Tartar is feparated from the reft, when it is attached to the fides of the veffel : And fermented Wine favoureth, because of the evaporating Sulphur, whereas Wine, whilst it is in the Grapes, savoureth not, because it is not fermented, neither containeth eveporating Sulphur.

2. When many bodies, fermented, as before, are united by an humide body, they are by the Arength of the internal composed Mercury, and of the external heat, brought under one dominion and power; and all their qualities and properties (which are naturally distinct) do, by a new fermentation unite (as it were) in one new quality, (which nevertheless may afterwards be feparated by defermentation, whilft the body is putrifying) as when different meats and drinks an changed into Chyle, and when of fo many fimples (fermented as before) fudorifick Treacle is made, which in process of time will putrifie: For, the virtues of the ingredients of recent Treacle, are really diftinct, and each of them attempteth operation, after their proper manners, before fermentation; and then Treacle is exhibited with less fuccess then afterwards, when it is sufficiently fermented. And this was the reason why Banderes afferteth , that Within ten years the frigidity of Opium and Hyofciamus, is overcome by the calidity of the rest of the medicaments. And therefore Philonium Romanum (whose composition they enter) is of little or no virtue. And the Opiat. called Aurea Alexandrina, foould not be made uf of, until it be fix months old; because the strength of the Opium doth predomine, and the fermentation is not yet ended. You will find these things in his Pharmacopoeia. But you would observe by the way, that putrefaction doth not arise in every fermentation, but in that only wherein is, I. much recrudescing

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recrudescing Sulphur, as in Electuaries, both liquid and solide, whose compositious Almonds, the greater Cold feeds ( commonly fo called, but which yet are really, though temperatly hot; for there is nothing cold wherein Sulphur doth abound: And that the truth of this may be unquestionable, I shall only add this, that the intense hear of Mustard, doth mainly, if not only, exist in its abundant Sulphur or Oyl, whereof it containeth so much as will in few dayes wet a sheet of paper (as if it were dipped in Oyl) wherein its pouder is keeped; and the difference betwixt the taste of this Sulphur, and that of the forementioned feeds, proceedeth only from the different degrees of heat proceeding from the different degrees of concoction) and fuch like do enter : for fuch become foon rancide, and do putrifie, because they contain almost no Salt for fixing of the Sulphur, and prohibiting its recrudescence. 2. Or where there is much superfluous humidity, which inquinateth the Sulphur, as in the fermentation of frest Fleshes. 3. Or where there is not a free egress given to the superfluous (though not abounding) humidity; as when a green berb, or piece of fleft, wrapped up in a two or three-fold cloath, doth putrifie, whereas it would have been fermented and dryed without putrefaction, if it had been hung up in the open air.

4. All (avour or /mell (whether pleasant or unpleasant) proceedeth from the evaporating Sulphur; for such things as are most sulphureous,

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are most odoriserous, whilst the Sulphur is evaporating, as Camphire, Turpentine, &cc. But
Stones, Methals, &cc. which are almost destirute
of all combustible Sulphur, are likewise also destitute of smell. And there be many very sulphureous bodies which are void of smell before the Sulphur begin to evaporat, as the recent Urine of a
Man, and the slope of new mactat animals, which
smell most abominably whilst their Sulphur is evaporating in their fermentation. And yellow Lamer, which is void of all smell, containeth a most
odoriserus Oyl, as appeareth when it is destilled or
inflamed.

5. Salt detaineth Sulpbur, and to its power prohibiteth its evaporation. And this is the reason why the recent Urine of a Man smelleth not : For whenfoever the Salt of the Vrine (which alfo flinketh, because of a little Sulphur which it detaineth united to its felf) beginneth to be separated from it, and affixed to the fides of the Matule, the Sulphur beginneth to evaporat, and the loathfome smell ariseth. Likewise fresh flesbes, for the fame reason, have no abominable smell, and the future puride and loathfome favour is prevented by the admistion of Salt: For the Sulphur of falted fleshes is fixed and detained by the Salt , fo that it cannot recrudesce, nor evaporat abundantly, with any abominable favour; and the putrefaction is also exiled by the Sale, which doth not abfume (as fome do ridiculoufly affirm) but contemperat the superfluous humidity as before. 6. Brimfone,

any favour; because its combustible Sulphur is by its Sales (fixed as well as volatile) detained from evaporating. Now that Brimstone containeth sales sixed and volatile, is hence proven, that out of its dross, after the separation or consumption of its combustible Sulphur, the former is extracted by lixiviation; and it is the latter, which being resolved into smoak, and ascending into the vitreous sampane, is by the humide air resolved into a most sharp spirit, or spiritous liquour, which salleth down into the other sampane, which is the receiver; and it is called the Oyl or spirit of Brim-

Stone by the Campane or Bell.

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7. The quality of the vapors of inflamed Brimfone, which affecteth the Nostrils, is not fo much a /mell as a corrofive quality, existing in the Volatile-falt, resolved into smoak, as was said, which doth mordicat the tender skin of the Noftrils, penetrateth into the brain, perturbeth it, and deceiveth the feafe, and fometimes killeth, as is demonstrat by its killing of Bees; for all fmell proceedeth from the evaporating combustible Sulphur, as was formerly proven: but the combustible Sulphur of Brimftone doth not evaporat when it is inflamed; because it is totally converted into flame and confumed, and none of it doth evaporat, or is converted into fmoak with the volatile falt : for, if from inflamed Brimftone, fulphureous smoak doth ascend, with the salinous, into the vitreous campane, why are not the former condensed D 4

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denfed into a fulphureous, as the latter are into a falinous liquor ? Moreover, no fulphureous body. which is void of volatile falt, emitteth fmoak when it is inflamed, unless it be blown upon by wind, and fo a little of the flame be extinguished and converted into fmoak ; as Sheeps-tallow , &c. But the smoak of Lamer Campbire, and such like inflamed bodies, is only the volatile (als refolved into fmoak; which any man will confess when he shall, in vain, have soughe for a sulphureous and combustible liquor amongst the forefaid condensed fmoaks, which become either a falt only, or a fpiritous liquor, as was faid concerning the volatile falt of Brimftone. Likewife, no fixed falt doth emit any falinous vapors, when it is melted by the fire ; and therefore in the destilling of fuch falts (as of Nitre, Sea-falt, &c. ) the double quantity of Some Earth (as of Bole of Armenia, calcined Allow, Sand, &c. ) is usually mixed with them ; that their fusion may be hindred ; for the heat of the fire doth fooner convert the atoms of the fait, which are separate from one another, by being mixed with the atoms of the Earth, into a spirit, then if they were united into a liquor by fulion (for united virtue or ftrength, is ftronger for operating or refilting, and contrariwife) and the atoms of the Earth do impede the union of the falinous which are melted by the heat, and converted into a spiritous vapor. But some perchance will fay, if the quality of inflamed Brimftone, which affecteth the noftrils, were only a corrofive quality, existing

existing in the volatile-sais, then the forementioned spirits of Brimstone (which is its volatile-sais dissolved into a liquor by the humide air ) cast upon burning soals, would emit a smook endued with a corrosive quality, which would affect the nostrils, trouble the brain, and deceive the sense, as before. To this I answer, that this cometh not to pass, because the volatile-sais (in which only the corrosive quality doth exist) is detained by the fixed-sais of the soals, which doth prohibit its evaporation with the humide air, which was first converted into water, and is again resolved into smooth. The truth of these things will afterwards better appear in the answers to the first and second Objections.

8. From the premisses we conclude, that the whole substance almost of Brimstone confisterh not in a rotten fmell, and that it cannot, in a natural manner, communicat to any earth or water, an unfavoury fmell, whether natural (called fator) or unpatural, called puter. For only the falts of Tartar and Lime can produce the folution in water, and indigestion (from whence proceedeth the putide smell, which it communicateth to water) of the combustible Sulphur of Brimstone; as in the composition of Lac (alpharis: For when Brimftone is boiled in water, with the falt of Tartar, the combustible Sulphur with the falts (being by boyling affociated to the falt of Tartar) becometh dissolved in the water, which (before its fermentation) fmelleth no otherwise than Brim-

from which is not inflamed. Now the fermentstion of this water, thus impregnat, is, I. Subitaneous, when some drops of destilled Vinegar are instilled into it; for then the falt of Tarear doth affociat it felf to its like (according to the proverb) viz. the falt of Vinegar; both which have their original from Wine. And after the precipitation of the pouder, it relinquisheth some of the combusible Sulphur, mixed with the water, which incontinent becometh indigested, and beginneth to evaporat, because it is dissolved in a strange humide body, and is affociated to a strange fall, which cannot hinder its evaporation, from whence proceedeth the unpleafant fmell (most like to that of the yoke of a hard boyled Egg; and most unlike to the fmells of not-inflamed Brimftone, and Moffer-wells) which argueth the indigestion of the combustible Sulpbur. 2. Or flow, because the falt s. &cc. of the Brimftone and Tartar, do within few hours affix themselves to the sides and bottom of the veffel wherein they were boyled, and then beginneth the fore-mentioned loathfome fmell, as was faid concerning the fermentation of Wrine. Now that the reliques of the combustible Sulphur, which are mixed with the water, do recrudesce, appeareth hence; that this putide water doth extinguish fire, and its relicts do not take flame as doth the Sulphur which is by the falts detained into the precipitated pouder. The fame cometh to pass when the double quantity of the pouder of Lime is mixed with Brimstone, and both

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both are destilled together: for, then some few drops only of (almost ) infipide (but stinking) Phleome, ( like the fore-mentioned water, immegnat with the combustible Sulphur of Brimfone and Sale of Tarear) do exftill, although you should augment the fire unto the liquefaction of the Glass Resert : thus was I cheated, in feeking free Schroderus his Oleum Sulphuris rubrum described in his Pharmacop. Med. Chym. lib. . cap. 28. Here you may take notice, that it is inpossible to extract out of Brimftone, a fulphureois and combustible Linguor, without mixing with it some other body, containing a combustible Sulthur : because the combustible Sulphur of Brime fione is fo united to it's falts, and fo detained by them, that it cannot be separated from them without the actual touch of fire; and when it is fo touched, it becometh presently inflamed and confumeth totally, as was afferted. We faid, 1. that Brimftone could not, in a natural manner, communicat to earth or water, any putide smell. 2. That by the fatte only of Tartar, or of Lime, the folution in water and indigeftion of the combustible Sulphur of Brimstone can be produced; because neither Nitre, Salt-Amoniack, nor Sal-Gemma, (which only are true Mineral-falts) can produce the folution in water, or indigeftion of the forefaid Sulphur: Neither will the longest infusion or decoction of Brimftone in water, produce the folution and indigestion of it's combustible Sulphur , because it is most strictly united

to it's proper Salts. Seing thefe things are co lected from our own proper experiments only. are of opinion, that from them may be conclude that it is most probable, that the water of Most Wells paffeth not through Brimffone, feing th he folution in water, and indigestion of it's co ustible Sulphur, cannot be caused by any true m eral Salt; and the Salts of Tartar and Lime ( which only the fore-mentioned effects can be pr aced) neither were, nor ever can be, found the veins of the earth , through which the water 3 orans do run.

The fore-mentioned Author, (otherwayes more medicarned) in the beginning of his 9. chap. of he Med a. Book of bot Baths, judgeth alfo amifs, in faying par that the cause of fervide Fountains is an actual vo fire, in thefe words : Seing the waters do fpring abroad very fervide or hot, we must of necessity confess, that an actual fire, above all degrees of beat is beneath them : for , the very waters themfolves, do bewray the very substance of fire it felf, a most bot quality, and the operations like wife of fire ; they burn, ( observe here, that the Author useth two words, incendant and arunt by the former of which, if he do mean, that the do inflame or kindle, he is yet further in the wrong for there is no folid body more easily fet on fine then Gun-powder is , nor is there any liquide body of a more facile inflamation, then the rectified [ rit of Wine is; and yet neither of these could ever be inflamed by any fuch waters as he mentioneth.

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to & sounds the 10 aler of Me flat not lof fins: 14th most ly be the draft of Gin-ponder, and smaining in a Gim, which halk boon of ton to flot (Gome pouls - re fifting, for the most find part of 2k sin flow and Hered 4this water for your opinion of the firm for To which of Dos in the state of the form of which of the safe the safe of the form South the both and the most work of the form of the framework and the form of the framework of the form of the for

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CO 2 It is Sufferently woll known to all place di trans, that all Moderings made of Brimition 6 (ab the Flowers, Mays forger Lar Balans Turkne Spiret stor and most offerhale in wing of a Confirmation . But it is allowed affer in that this made in affering affering wirall to all perford to he has this of suffer on the fe course and in a different to fake it for the half offen popula fuck undo Elevanty Too thorfer ad how to, my ound opmin box that but imprognal no the Sulphon of Antimony; rohit of has poparate from dution mony; and was yollow and inflamable at -(whom in flamed) just a frame the property of the property of the africal of the property of the africal of the plane of t

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obtioneth, neither by the most rectified Aqua-fortion which according to his judgement, hath as many of these waters of which he writteh) vesicat, destroy sense, expilat whatto sever Animals are east into them, then excordat a little, and at length do consume the sless, and enervat to the very bones; all which, are the effects

of fire.

These things are spoken amis, 1. because the very contrary effects are at some times produced by bodies which are most hot ; as when the most rectified (pirit of Wine, and all sulphureous Oyles which are drawn out of Spices, as also the Oyl of Lamer. do not deftroy fenfe, but revivifie it when it is deftroyed, and, as it were , dead , as in the Pallie. 2. There be two bodies, viz. Iron ( which no man did ever call more hot then cold ) and Aquafortio, ( which is composed of Nitre and the Sale of Vitriol, which are really cold) radically frigides the mixture of which (in a Glafe Cucurbite covered with it's Still) produceth a great heat, chullition and destillation, and that without the external adhibiting of the heat of fire. Now this heat ariseth not from actual fire ( feing the forementioned bodies are not firy nor hot ) but rather from the motion of the corrolive Aqua-forti. whilst it operateth upon the Iron, for dissolving of it : for, motion produceth beat, as when a piece of Lead ( which is of it felf most cold ) contracteth heat, being beaten by an Iron Pestill or Hammer, which also are naturally cold. That actual fire is

in neither of these two bodies; and that it produceth not this heat, appeareth hence, that the most rectified Spirit of Wine (which is most easily instance) when mixed with Aqua-fortis, whill it is dissolving Iron, conceiveth not slame, but doth debilitat the action, and totally prohibite it forstime: But we shall easily shew, that Aqua-fortis and every acide Spiris (as the Spirits of Visrial, Nitro, Brimstone, &c.) which do vesicat, burn, as it were, &c. are not hot but cold; by proving, that every Salt (especially the fixed) is cold, seeing the fore-mentioned Spirits and water, are only Salts converted into Liquors, either by the heat of the fire or humide air.

Arg. 1. And, 1. we fay, that all Physicians (both Hermetical and Galenical) do acknowledge, that Nitre, the Spirit of Vitriol ( which Angelus Sa. la in his 6. chap. concerning the nature of the pirit of Vitriol, afferteth to be borrowed from Brim-Ronc, and to have the fame virtues and properties with the Spirit of Brimstone, and which in the 10. chap. he acknowledgeth to be bot in the fourth degree) the Spirit of Brimftone, &c. do refrigerat, although they do fay, that they do ir accidentally only, and by de-obstruating. As for example, when some drops of the Spirit of Vitriol ( which they call hot ) by de-obstruating the pores of the body, do conciliat a more facile entry to the refrigerating water. I do acknowledge, that it is not admirable, that this opinion, thus masked with the specious deess of probability, and vulgarly belicycd,

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lieved, because established by the authority of Antiquity, hath hisberto inclined the reasons of all men to an affent and conformity unto it; but vet a upon the evidence of hope, we dare promife to our felves , that our not understanding , how actuall cold, and (an effectually cooling quality, can confift with radical heat, will avere from us the edious attribute of prefumption, and conciliat a favourable conftruction to this our fingularity and non-adherence to Antiquity : because that distinction never was, nor could be, applied to any (without controversie) hot body not falinous; as to the pirit of Wine, Oyl of Cloves, Cinnamon, Mustard, &cc. any of which, being mixed with the most cooling honor, will without controverfie, diminish its frigidity. one be

2. Aquafortis, the (pirits of Vitriol and Brimfine, the pirit of common Salt, the Onliof Tarrar by deliquation (which is the Salt of Tartar diffolved into a liquor by the humide air in a cold or subterraneat place) the Oyl of common Sale by deliquation, &c, do extinguilly the fire as doth the coldest water. Therefore they are, in their first qualities, heterogeneal to fire: for fuch bodies only are (and onght to be) valgarly called homogeneal to fire in their first qualities, which do contain fome matter which becometh nonrishment unto fire (Sules and Salineus bodies only excepted) and that is only Sulphureat from if it be almost insipide (as the Sulpher br Ogla of fweet Almonds, Olives, &cc. before mey become ranoide)

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cide) then the body which containeth it is not calle bot , but temperat in heat : but if the Sulphur h very fapide, and do affect the cafte much; the bod wherein it dorbrefide is called ber ; and its degree of heat are commensurar by the degrees of its fapi dity. Now every pure Salt is altogether destina of fuch matter. Moreover, the frigidity of bodie which are estimat cold, should likewife be measure by their different degrees of fapidicy ; as Cichory colder than Lettice, and the jugge of a Limon colder than either, and the (pirisfof Visriol is the coldest of all the four or. Neither is this conte ry to the common faying of Philosphers, viz. the water is the coldeft of all bodies; for that is on to be afferred of the pute elementary water, which is not to be found amongst us, and unto which (without all controversie) frigidity in the higher degree is as proper as ficcity, humidity and calidity are unto the Elements of Earth, dir and Fire So that it is more then probable, it has as the refriperating cold of fome foringing waters doch hugely furpals the fame quality in common fountain water, to likewife the frigidity of the elementary water doth furpals that of the foirst of Vitris and fpringing water, as far as the frength of Aqua forris dorn the ftrength of the juice of Limona !! diffolving of Pearls : both which do operat after the fame manner, only diffolving them into ponder, without a roying their natural temperaments which fire doth, when ir diffolveth them, or any thing all which do undeniably evince chis debia.

this, that Correfives are not of a fiery and hot

temperament.

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Every Fixed-falt doth naturally artract those things which are cold and humide, as Water and Air : therefore it is in its first qualities (frigidity and humidity) homogeneal to them. Moreover, as the action of the spirit of Wine, Aquavite. &c. upon Oyls, whereby they diffolve them. and unite them unto themfelves, doth argue the Oyls (viz. of Cinnamon, Anile, &c.) and (pirits to be homogeneal; fo likewife we do most probably conceive, that the diffolution of Salts by water, doth demonstrat the homogeneity of their natures. For no natural body, which is in its natural estate, doth naturally appetize or attract its contrary. Nor is it contrary unto this, that an animal whose stomach is distempered with calidity and ficcity, naturally defireth a humide and refrigerating body; because that stomach is not in its natural eftate ; neither is it the ftomsch, but the Animal. (whose the stomach is) which desireth the curation of the morbifick diftemper, by a humide and refrigerating body.

You would here take notice, that the cause of Thirst which is by Aristotle, in his second Book of the Soul, called, a desire after a humide and frigide body) is two-fold, external and internal; each whereof is either bot, or corresive and cold: Por corresives are really different from such things as are bot, as shall afterwards appear, from what hath been, and is to be said. I. The internal bot

cause of thirst, is a hot distemper of the whole body (as in a Feaver) or of fome part of it, as of the Stomach, Liver, &c. 2. The external hot canfe of shirft, is the radical heat of meat or drink, existing in their sulphureous pares, which produceth a hot diftemper in the stomach, &c. 3. The internal correfive canfe of thirft, is a bilions, falt. and correfive humor, which corrodeth the skin of the stomach, and by motion, in the solution of continuity, conciliateth heat in the corroded part only, whereas the heat of meat and drink do fometimes produce a hot diftemper in the whole body, each of whose parts, after the concoctions, it permeateth. 4. The external corresive cause of thirft, is the corrofive falts of meat and drink, which do corrode the stomach, as before. For the cure of shirft, proceeding from a hot cause (whether external or internal) a body radically and actually cold and humide, is necessarily required. But for the cure of thirst proceeding from a corrolive cause, a humide body, radically only (though not actually) cold, is fufficient, wherein the Sales may be dissolved; which being done in a copious humide body, they become fo debilitat, that they cannot any more corrode the skin of the ftomach : for disjoyned virtue or frength is weaker. Now this folution is more easily effectuat in a humide body which is actually hot, than in one which is cold. This fort of thirft is curable also by Pearls, Co. ral, &c. For when fuch things are put into the ftomach, the Salt of the corrolive humor doth affix.

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affix it self to the atoms of the Pearls, Coral, &c. and so the humor is dulcified (as is Vinegar, when affused to Corals, Red-lead, &c.) and loseth its cor-

rofive quality, and then the thirft ceafeth.

Here we cannot but inquire after the cause and cure of that common and troublesome distemper, vulgarly called the Heart-scade. We conceive that it is caused by acide and corrosive humors, which being congelted into the stomach, do irritat its expultrix faculty, fo that they are constrained to mount upwards to the throat, where the greatest pain and trouble is found; because the corrosive humor having excoriat the Oelophage or Wexand, it is ftill most sensible of the mordication of the bumor, which is most active upon the uppermost part, upon which it beateth with violence : So this may be called an imperfect vomiting; because there is but little or nothing expelled at the mouth. the humor descending again into the stomach. The cure of this turbulent distemper consisteth, 1. either in the evacuation of the peccant humor, (which is the perfect cure) or, 2. in the correcting of its corrofive quality by dulcification; or, 3. in prohibiting this ascention of it to the throat, which are palliative cures: As to the first, the only best way for evacuating of the peccant humor is vomiting : for Art ought to imitat Nature, and affift her in her attempts which tend to the good of the creature. The second fort of cure by dulcification is (as we conceive) three-fold; I. by drinking of the pureft fountain water in the morning

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ing, and at five of the clock in the after-noon, when the stomach is empty. I am confident that the water of Moffet-Wells will cede to none for this use : because it will not only dulcifie the corrosive humor, but also help to expell it by stool. The person may drink more or less, according to his, or 2. By Corals, Pearls, and fuch like, as was faid a little before concerning the cure of thirft. 3. By the using of Sales, either purely natural, as Sea-falt, or which have been by art extracted out of vegetables, as Worm-wood, &c. This will certainly appear as a great Paradox (if not a falschood) to all who are ignorant of our Spagyrical art, and particularly of the operations of falts of different properties, upon one another. But for the evincing of the truth of what hath been faid, I will first relate a story, and then give the reason of the effect. A near friend of mine own, who was as much molested with this distemper as any other ever was, effayed all the cures which were known to any with whom he had difcoursed concerning that disease, but the most soveraign of all, he found to be the eating of a little of the fatteft Beef in the morning; after doing of which, he was not at all affaulted by the diftemper that day. Now the reason of this effect is evident, to be none other than the operation of the falt of the Beef, upon the falt of the correfive bumor, by which it was dulcified. As in the making of Tartar-Vitriolat, the Oyls of Tartar and Vitriol (which are me ft falt, fharp and corrolive) being

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being mixed, do produce a liquor altogether inti-The third way of curing this disease is by prohibiting the ascension of the humor to the throat. This is done by the drinking of the spirit of Wine, or Aqua-vita, which do prohibit the ebulition of the humor, and confequently the afcention of it, or of vapors from it, unto the throat : For either of these being mixed with Aqua-fortis, when it is distolving Iron, will prohibit and hinder the action and chullition of the corrolive liquor. This is the worst of all cures; for although the person will get present ease, yet the distemper will recidivat more violently than before; because the corrofive liquor is not only by the remedy augmented in its quantity, but also in the degrees of its corrofive quality: for the corrofive liquor in the stomach doth fix the volatile spirits of the Wine and Aqua-vita, and fo converteth them almost into its own nature; as you read before in the Preface, concerning the natural composed ferment. I will add a fourth way of curing this distemper, viz. the taking of fuch things as will imbibe the corrofive humor in the stomach, and carry it unto the intestines. I mention this, because I was informed, that one who was molested with this diftemper, used to ear a great quantity or number of Groats made of Oats, and fo was eafed. ordinary cure by drinking of sweet Milk, cannot but be reprehended : for though it case a little at first, yet it causeth a recidivation when it is fermented into the flomach, and becometh acide, as in a E 3 Churn.

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Ghurn, when referved for making of Batter, 4. Every pure fixed falt is radically bumide, without the admission of any sulphureous and combustible matter, (for by suspense calcination is converted into a Liquor) therefore it is also radically cold. I said, without the admission, &c. because every sulphureous substance is also radi-

cally humide.

5. Such bodies as contain more perfectly concocted and combustible sulphur then others, are commonly (and deservedly ) called bot ; as are thele Spices, Cinnamon, Nutmegs, &c. and the fulphureous spirit of wine : and contrarywise, fuch as contain less of the foresaid sulphur than others, are faid to be cold, as bestice, Purfelaine, Cichory ( whose great bitterness proceedeth from falt and fulphur ) &c. and the corrofive parts of many Vegetables ( fo called, because they diffolve Pearles, Coral, &c.) as Vinegar, the jugee of Lemmons, &c. are cold, without all controversie. Now we defire to know, why such as acknowledge Vinegar, &c. to be cold, do deny the falts of Tartar, &cc. ( which are altogether void of (ulphur) to be also cold, seing they are of the fame nature? For, the acidity and corrolive quality of the Vinegar, do exist in it's falt, which albifieth the atoms of the Coral, Lead, &c. which are diffolved by it, ( for every purified falt is white) and this falt is the very felf same falt of Tartar fo diffolved in an aqueous body , that it is inseparable by destillation, without the addition

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of some other body : for, the acide Liquor of every body, which is commonly called Mercury, is nothing elfe but a little of the falt (especially) fixed of the same body , dissolved in the aqueous part ; which appeareth bence, that in the abstraction of destilled Vinegar from Lead or Coral which it dissolved, when soever the sulphureous Spirit ( of which in the Preface ) exstilleth, the next infuing Liquor is almost insipide, as water; because it's falt (which did formerly render it scide) hath forfaken it, and betaken it felf to the atoms of the body which it disfolved, and now doth albifie. Moreover, there is no corrolive body which is not faltish, neither any faltish body which is not corrofive ; neither doth the sulphureous Spirit of Wine, it's extraction of the refine out of Jalap, falfife this ; for it extracteth it not by a corrofive quality (because it is void of falt, and therefore corrodeth not the terrestrial part of falap, dividing it into atoms, as Vinegar doth Lead) but by a real firy heat, which liquifieth the Refine, and existeth in the sulphureous and inflamable Spirit, and from thence proceedeth the mutation of the colour; for the Spirit of Wine which is impregnat with the Refine of Jalap, is almost tinctured with redness.

It doth hence appear, that the frigidity of Nitro may be questioned, seing it containeth much /ulphur, though indigested; as appeareth hence, I.
Nitro cannot be dissolved by deliquation, as the
rest of (alts which are voide of /ulphur, before
that the sulphur be separated from it by calcina-

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rion. 2. A drachm of Brimstone being injected upon Nitro which is liquified by the fire, flameth longer then if it had been cast upon burning coals; because of the sulphur of the Nitro which also conceiveth flame, and consequently prolongest the burning. Here observe, that it it is only the crudity or indigestion of the nitrous sulphur, which hindereth it's inflamation, when it is not associat to sulphur that is perfectly digested, and which is inflamable of it self, (of which fort are the sulphureous parts of Brimstone and Coals) because the sale which detaineth the sulphur cannot prohibitit's inflamation, seing the most abundant sales of Brimstone do not hinder the inflamation of it's combustible sulphur.

6. Aqua-foren, destilled Vinegar, &c. do not burn, therefore they are neither bot nor firy; for, fuch things as are burned or confumed by fire, cannot be resuscitated, and their proper temperaments are destroyed, (as when Stones, Salts, Iron, Antimony, &c. are vitrified by fire ) but fuch things as are distolved, as it were, burned and annihilated by Aqua-fortis, destilled Pinegar, &c. their proper temperament is not destroyed, and they can be resuscitated : for, what is the precipitation of Coral and of fuch like, who have been diffolved by the fore-mentioned Liquors, but their resuscitation? And when they are resuscitated, they are endued with the fame virtues where-with they were enriched before their folution, as is confessed by all Physicians, who prescribe this manner of their

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preparation; and then make use of them, as more effectual then formerly. But fome, perchance, will fav, they are not intirely refuscitated, nor can they he reduced to their prifting efface. As for example, it is impossible to convert Lead which was diffolved by destilled Vinegar ( and afterward feparated from it by precipitation, and converted into Cerufs ) into Lead again as it was. I did truly effay this, but to no purpofe; for this matter cannot be liquified, without the most intense heat of the fire, and then it is only converted icto a matter, like unto the litharge of Gold; the reason whereof is most probably thus, viz that the corrofive falt of Vinegar, which hath affixed it felf unto the atoms of the Lead, can never be separated from them (for which confule the Animadver froms of Dr. John Zuelfer, upon the Magisterial ponder, described in the Augustan Pharmacoporia) and prohibiteth the liquation of those aroms (which of themselves are most easily melted) before that it felf be melted , which requireth a molt intenfe degree of heat : for it is of the fame nature with the latt of Tartar, as was faid, which is not eafily melted. These things are most true, and being calculated according to their feeming altitude in the meridian of reason, would appear to be nearer the Zenith of truth, than our fixth argument ; But the contrary will evidently appear, if you confider, that it happeneth not fo in all; for although you should a thousand times dissolve, and, as it were, annihilat Quick-filver, by the ftrongeft corrofives

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rolives and causticks (as they call them) yet a little hear will revivify it again, and cause it recuperat its priftine form, Process-like. And ver the felf same Quick-filver, which is most imparient of the heat of fire (for it flyeth from its vesicating and depiliting degree, and far more rather its actual touch, by which it is quite diffipated) esheweth not the most intense (somniat) heat of corrolive bodies, nor is it diffipated thereby, but only converted into most minute atoms, and that without the destruction of its proper and natural temperament. Therefore, fuch things as are(as it were) burned by corrolives, are not burned and destroyed by any fiery and hos substance, but only converted into most small atoms, by a correfive and cold one, without the destruction of their proper and natural temperaments.

It is no small ground of admiration to me, that no Chymicall writer which I have seen or heard of, did ever expressly assign unto their Principles or Elements, sirst qualities; as did the Peripatetick Philosophers, who attributed heat to fire, humidity to air, frigidity to water, and siccity to earth. I will therefore further attempt the proving of Sals to be radically cold, and Sulphur hos, from the most learned assertions of the most admirably ingenious Physician Dr. Thomas willis. I will begin with the last, being least controverted,

and foonest dispatched.

In his Diatriba Medico-Philosophico de fermentatione, cap. 2. (cui Titulus, Chymicorum Principiorum, cipiorum descriptio, corum; proprietates & affertiones) where writing of Sulphur, he affertech thus : Rei cuju que temperies, quoad calorem confiftentiam, o smabilem texturam, à sulphure imprimis dependet. i. e. The temperature of every thing, as to heat, confistence and lovely texture, doth originally depend upon Sulphur.

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As to the first, that falt is radically cold, in that 2. chap. of falt he writeth thus: Rebus compattionem & Soliditatem, nec non pondus & duras tionem largitur, corporum disolutiones retardat, congelationes & conquiationes promovet : putredini , corruptioni , & inflamabilitati plurimum refiftie. The knowledge of those things pertaining only to fuch, whose literature doth capacitat them to understand them, as they are here fet down; and it being impossible to express them for fignificantly in Scats, I will not moleft the Reader with a Translation, but only deduce my confequence from them.

I am confident, that none, who have any knowledge of Nature and her admirable works, will deny, that the most compact. ( Diamond) folid. (Gold) ponderous, (Lead) durable (Silver) bodies, are radically cold; the existence of which quality in them, is further demonstrat by their long refisting the violence of fire ( which is the most violent and agile disfolver of the natural unity of Bodies) their congelation and coagulation, whereby they are capacitat to deny obedience to the greatest violence ( excepting that of malleation)

circum-scription, by their own superficies; as also, by their incapacity of being putrissed, corrupted
or instance. If then the most compact, solide,
ponderous and durable bodies, &c. be radically
cold, it is undenyable, that that from which they
have these properties is far more such; for, proper
guod unum-quodque est tale, id splum est magic
zale. Moreover, doth not, only their resisting of
the violence of fire, demonstrat their natural qualities to be opposite to those of fire. Whatever
shall be said to the contrary of this, I am most
consident that it is most undenyable in all other

things.

Further, our fore-mentioned Author (whose ingeniofity shall never be sufficiently admired ) in his Diatriba de Febribus, cap. 3. he writeth thus Rigoris aut frigoris, calori precedanei, in febris bus intermittentibus canfa, est succi nutritii portio, qua insignem acorem contraxit, quo partes nervojas valde pungit & vellicat, atq; frigoris fen-Jum incutit ( non fecus ac Cervifia novella, que utribus inclusa, à dulci in acidum, & nitrosum Saporem transit, ut pra acore & frigiditate vix deglutiri poterit) cum hujusmodi crudi succi particule nitrofo acore predite, in fluore effe incipiunt, Spiritus vitales acore suo primo obtundunt, & calorem nonnibil obruunt : quare Janguis frigidior existit, & tardius circulatur, quin & ob caloris defectum, fensus frigoris in toto corpore percipitur.

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Ex pradictis (ni fallor) manifeste sequiture

1. Sanguinem in statu naturali existentem esse
calidum propter spirituum vitalium (quos sutphureos esse, nemo insiciabitur) abundantiam & vigorem; Cervisiam etiam esse se calidam, propter spiritus sulphureos.

2. Sanguinem & Cervifiam novellam, a caliditate gradatim debiscere, pront ipsorum partes salina, sulphureis prapollere incipiunt, viz. cum

fluorem adipiscuntur, ut ait D. Willis.

3. Sanguinis partes salinas, frigoris aut rigoris sensum, nervis incutere, in febre intermittente; ut Cervisia acida sal, fluorem adeptus, lingua offaucibus tantam frigiaisatem insligit, ut deglutitionem ferme prohibit.

4. Sal radicaliter & natura sua frigidum effe. Print dictum eft, admiratione. digunm effe, Medicum afferere, Acetum, Limonii fuccum, & similia refrigerare; Aquam fortem autem Vitrioli Spiritum, &c. urere, & calefacere, cum gradualiter differant, tantum in frigiditate, ut globus ferreus, ita tantum calefactus, ut manu contrectari possit, & ipsi frigido calorem communicet, in caliditate differt ab also intensissime ignito. qui incendere, urere, &c. poteft; qui tamen, fi aque quantitati proportionate immittatur, ei cacaloris gradum communicabit, qui nativum animalis calorem non destruct, lea tantum fovebit, nt Vitrioli spiritus, qui, ignis infar, veficas excitat, fensum destruit, animalia expilat, calorem febrilem, praternaturalem amice repellit, cum Julepis

Julepis refrigerantibus guttatim permi/cetur; Audent etiam nonnulli impudenter asserere, Limoni succum esse calidum; quod si verum sit, quodnam quaso medicamentum dicetur frigidum?

Oftendamus nunc quomodo differant falfum, acidum, acre, & amarum, idque latine etiam ; Quia voces vernacula congrua non suppetunt. Ex. gra. fal marinus decrepitatus, eft simplester falfus; decrepitationem vero ante, acidus potins dicendus eft, ut & Nitrum, Vitriolum, Tartarum, inftar Aceti, Limonii succi, & similium, qua acida funt, propter Sulphur in quantitate exigua admistum, quod falfedini, du'cedinis quasi gradum unum inaucit ; ideog; Tartarum acidum, cum calcinatur fit falfum : & Acetum acidum enm Plumbi atomis, Sulphur continentibus, impragnatur, dulcedinem quast acquirit. Denig; idem fal marinus decrepitatus (ut & Nitrum, Vitriolum, & quodlibet fal fixum) cum ignis violentia, deftillandum inter, in liquorem resolvitur, salsedinem amittit, & acredinem contrabit. Itaque falledo & acredo, in boc tantum differunt, quod falledo fit qualitas corporis falfi den fioris, & minus activi; acredo autem, rarioris, ideoque majoru activitatis; quod binc niterius patet. Salis etenim fpiritus pradictus acris, fali novo decrepitato affusus, in vase circulatorio, cum post debitas tirculationes fixatur, & fali decrepitato unitur, acredinem amittit, & falfedinem contrabit.

De amarore antem dicimus, ipium caufari a mistione (forme anatica) Sulphuris & falis vola-

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tilis, ans salis alcati nitrosi, quod cum Sulphuris quid contineat, Olco sirmiter aubaret, quod id ipsum secum rapit, dum in calcinatione destagrat, ant menstruo mediante extrabitur; atque Sulphuris bas extractio a sale pradicto promovetur: cum etenim in bumore aqueo dissolvi incipit Sal, secum copiosius trabit Sulphur, ideoque Sennæ uncia semis in aquæ unciù sex, cum Tattari drachma una insula, colatura erit magis purgativa, quam si Tattarum non adderetur. Aque bac de Aloe, Colocynthide, Opio, Absinthio, Carduo benedicto, &c. quorum omnium sal pure sixum, terra sirmiter adbaret, antequam suorem adipiscitur in fermentatione, ant per lixiviationem è cineribus extrabatur.

From the premisses seriously considered, these consequences do manifestly result; 1. that it is necessary to distinguish betwixt hot and corrosive, as betwixt hot and cold. 2. That the intense heat of waters that boyl in sountains, ought not alwayes to be attributed unto fire (as said Dr. Andrew Baccim) but rather to the action of a corrosive body, as of Nitre, Vitriol, &c. being not far distant from the sountain.

any (ale Ammoniack mixed with the water of Moffet-Wells, without all doubt, it would affix it self with the Nitre, unto the white and salinous stones, from which it might afterwards be separated by sublimation, seing it is by nature most volatile, but so it is, that nothing can be separated

from them by fublimation, as our own experience did testifie. To this we answer, I. that a very little quantity of falt Amoniack, produceth the fore-mentioned precipitation, as appeareth in every precipitation. 2. The falt amoniack, is fixed by the fixed falt of the Nitre and stones, fo that it cannot be separated from them by sublimation: and this is most probable, if it be considered, that falt ammoniack is commonly fixed, when it is by stratification calcined with the pouder of Lime; For then the fixed falt of the Coals, which bath by calcination affixed it felf unto the earth and fixed falt of the stones, doth fix the falt amoniack, and rendereth it diffolvable into an Oyl (improperly fo called, because not sulphureous) by deliquation. 3. Or rather (because most probable) the volatile (alt ammoniack, being distolved in a strange humide and aqueous body (viz. the water of the Wells) doth evanish with the evaporating Sulphur: for, in every destillation (which evaporation doth ftill preceed) the volatile falt doth follow the Sulphur, and extilleth after ir, as was already faid in the Preface.

2. If the water were sufficiently impregnat with Nitre, for the dissolving of Antimony, the water of the Wells would not be sweet to the taste, as they are: for a very great quantity of Nitre would scarcely be sufficient for the operation. It is answered, that the water doth almost totally loss its saltness, by its action upon the Antimony, and afterwards it deposet the relicts of

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its falt upon the stones, as appeareth from what hath been said. No man will question the truth of this, if these two experiments be considered;

1. That Aqua-fortis loseth much of its strength by operating upon Iron.

2. The Oyls of Tarter and Vistriol (which are most salt, sharp and corrosive) when mixed (as in the composition of visticities) when mixed (as in the composition of visticities of the composition of visities of the composities of the composi

2. Others will peffibly fay, that this is a new and unheard-of manner of anatomizing, a mineral water: for it should have been examined by destillation, evaporation, calcination, Ge. that thereby the forefaid affertion might have been proven. I answer, I. there is here no need of destillation: for the water of the Wells is only impregnat with Nitre and the putide Sulphur of Autimony; the former whereof is proven by nature, seing the Niere doth affix it self to the rocks, by which the water descendeth, and the latter is already shown by an experiment. 2. Seing our Spagyrical art (the most excellent imitatrix of nature) and nature her felf, do excellently and evidently prove the affertion, operations should not be multiplied, without necessity. 3. The destilling of the water would prove a frustraneous action; I. because it would require a vast quantity of water, for to acquire but a very little of the falt: for there is but little of it contained in the water, as appeareth by the rocks; for there is but TELY

very little salt, as yet, attached unto them. 2. Unless the vessels were bermessvally scaled, the water that would extill, would be destitue of all taste and smell; because its Sulphur doth constantly evanish, so that in a short time, it leaveth it quite destitute of smell, although it be keeped in a vessel most closly stopped with a cork.

## Concerning the ufe of the water.

E xperience having taught, that many have got ten much good by the use of this water, and that others have reaped more harm, and finished their miserable lives foon after their making use of it; the difficulty of describing its virtues, is beyond controversie, as also that it were a mon difficult task to thew who thould make use of it, and at what time; because some have been bettered (you cured) by it at one time, and wronged at another, when they have addressed themselves unto it, for prevention only of that disease, which had once been cured by it. Therefore I shall only propose fome general rules, concerning its internal and external use: For no man can prescribe to all fort of persons particular rules, for using it internally, unless he had been an eye-witness for two or three years, to its different operations, upon persons of different constitutions. Now the rules are thefe,

1. The water of the Wells of Moffet would be most warily used, seing it doth sometimes produce as sad symptoms, as Antimony it self doth-

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a. No man should use this water internally, who doth not (by vomiting, urine, or stool) evacuat as much as he doth drink, especially if he be bydropick.

3. It conduceth to the cure of almost all Vi-

Oc. when it is only externally applyed.

4. It is very duretick; and the water of the neather-well, more than that of the upper, because

it is more falinous, as was proven.

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5. In the autumnal months, it is enriched with the most and best of its strength and virtues, the earth being at that time most dry: for, in the winter and spring times, it is debilitat and vitiat by rain.

6. Such as are of a more robult conflictation than others, would take an antimonial vomicory, for louding of their humors, before they make use of the water: for then the water will be of a more

facile operation, though in a leffer dofe.

7. Since the printing of this little Treatife in Latine, it is by many, more confidently reported, than ever, that this water hath often made the barren womb fruitfull; which we cannot contradict, having been greatly convinced of its certainty, by the effects which the water hath produced in some persons, which have been afflicted with that lamentable infirmity. And being rationally induced to believe, that such a putide water will prove an excellent hysterick (the most part whereof are such) for purging out all impurities (the most or-

dinary remoras of generation) from the microsof-

micall habitation of man.

8. Experience hath restified to many, that it is good for the Scarvy, being used both externally and internally; and paralysisk persons also have been much bettered by using it, after the same manner.

9. This water deleteth the spots of cloath, when

it is washed with it.

Such as are, and ever have been, prejudicat against Antimony, and irs use, will (no doubt) also condemo the using of this antimonial water, though composed by God himself, the Former of all things, and the best Chymist, who hath created every thing for the benefit of man. Therefore I will mention, and answer, some expressions of D. A .-- Parifis Neapolitanus, in rationibus fuit contra Antimonii, cum crudi, tum praparati, ulum, which he subjoyoeth to his Confilia medicinalia de confervanda fanitate, printed and published by him at Edinburgh, anno. 1620. He writeth thus ,cap. 2. Indernacus, Antimenium refert inter fosilia, que primordia genera tionis sua ex Aqua ducunt, & inter illa, ei principalem locum affignat : que fententia nobis etiam placet .-- Plu aquea natura in fibio reperiri quam terrez, convinci potest ex notis boni stibii, quas Avicenna, lib. canonis [ui,e.7.trait. 2. refert.

Cap. 4. Ab Avicenna stimmi frigidum (cribitur in prime, & siccum in secundo gradu---. Ab Jacobo Graminio, in tractatu sue de Antimonio,

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rellim adbuc ad tertium completum frigiditaris ordinem refertur, qued ipfum & illim vires probant .-- Mifcetur cum Minio & Ceruffa, ad confolidanda ulcufcula, a comburente flamma excita-84. - Gulielmus Varignana, in fecretis fuis pulverem ejes Cancro depascenti ac phagedanico ulceri in/pargit, --- Tantum de temperamento & facultatibus crudi stibii, nunc ad adustum, preparatumus, fermo pertranfeat. Collocatur autem a nonnullis doctissimis viris, quomodocung; calcinatum, in quarto caliditatu & ficcitatu gradu. Ratio eft, quia ex mente illing aureoli Paracelfi Chymicorum principie (docente Arnaldo de Villanova, in Refario (no philosophico) que calcinantur & uruntur, ad quartum caliditatis gradum perducuntur. Actiones etiam fen operationes eju, nobie adftipulantur. Quia omnibus putridu & gangrenofis ulceribu, majorem in modum prodeft, quod citra infignem ac prevalentem ficcigatem & caliditatem fieri nequit.

This Author relateth only the opinions of others (and sometime from the second hand, as in that of Paracelsus his opinion, docente Arnaldo, &cc.) and then assente to what he conceiveth most probable, yet without giving any good reason for their asserting, or his own assenting. It being the most difficult task which a naturalist can take in hand, to determine the temperatures of bodies, either as to their qualities or their degrees; I will only humbly offer my opinion, with as much reason as I can, in these two affertions.

1. Antimony containeth much earth and fale, from which it (and all other bodies) hath its fol-

dity and ponderofity.

2. Antimony containeth much inflamable Sulphur (from which it, and the glass made of it, have their colours) assis most evident in its calcination,

either alone, or with Nitre.

From these, and what hath been formerly said, concerning the natures of Sulphur and Salt, let each person infer what they please, concerning the temperature of Antimony. For my own part, I am of opinion, that the vomitive and purgative faculties of Antimony, do not proceed from its temperament (seing there are many other bodies of the same temperature with it, according to Authors, which have usurped this determining power, which yet have none of these faculties of Antimony) but from its natural form, which the Creater of all things hath bestowed upon it.

As for that opinion of this Author, viz. that crude or natural Antimony, being cold in the third degree, and dry in the second, is by burning or preparing it any way, so metamorphosed, that it becometh het and dry in the sourch degree (which he soundeth upon the opinion of others, and so infirm a reason of his own) I cannot sufficiently admire it; because I conceive it to be without the reach of any created being, to induce the sourch degree of any of the first qualities (which are by Philosophers attributed to the pure Elements only) upon any composed body, such as is Anti-

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mony; far less at all to alter their effential properties (such as are heat, cold, &c.) which proceed from their natural forms, without destroying the natural forms, and producing in them, not only new forms, but also new properties proceeding from them, at least the destruction of their former properties, as when Salt, Sea-ware, &c. are converted into Glass. But here you have a Philosopher and Physician afferting the contrary concerning Antimony, to which he affigneth the same properties, before and after its preparation, which he affirmeth to operat so strongly upon it, that it altereth its first quality, cold in the third degree, beyond contrariety, to hot in the fourth degree.

In his fifth Chapter he laboureth to prove Quod Antimonium neq; erudum, neq; praparatum, intra corpus ullo pacto adhiberi debeat. And his only argument is this, Si Antimonium tota sua substantia est venenum, omnibus modis erit humana natura adversarium. Ergo Antimonium ut catera venena destruere naturam nostram, absque controversia pates. Venenum tribus rationibus esse essenditur. 1. Per smilitudinem ejus cum Plumbo. 2. Per malignitatem ejus. 3. Per

imperfectam correctionem ejus.

Similitudo & cagnatio ei cum Plumbo (quod inter venena annumerandum esfe, neminem igno-

rare censeo) maxima eft.

Quod ad malignitatem attinet, odorem emittit virulentum ac insuavem (dum crematur) auripigmenti venesicam exhalationem proxime repra-

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sans. Hinc ab to fumo, dum calcinatur, tani quam à prasentissimo veneno, Chymici cavere, & nares diligenter obfruere jubent. Imperfecta of ejus correctio : quia Petrus Marchiolus, /uper, 5. cap. Dioscoridis, ad tollendam ejus venenatam facultatem in coltione, Chryfocollam feu Boracem ei mifceri jubet, vel Theriacam : etiam Cornu Monocerotie, & (pecies Diamofchi, at que id genus alia alexipharmaca, ei commisceri ab aliu jubentur. Taceo jam purgationes, convulfiones, atque alia gravissima (ymptomata, co utentibus incidentia .---- Stimmi non aliquem proprium & discretum humorem purgat, sed promiscue omnes bumores per alvum exturbat. Ergo similitudine effentia fen form a non purgabit, ut reliqua medicamenta que forma similitudine purgant proprios, & discretos humores, secundum Hippocratem, lib. de natura bumana. Affeveramus itaque Antimonium calcinatum, exitiofa [ua ( matura humana & prafertim cordi) tum (ubstantia, tum etiam qualitatibus, moleftiffime waturam, irritantibus, communi quadam traductione, non folum pravos, fed etiam optimos expellere succos----- fit ergo bac purgatio, non per fe, jed ex accidente .---- Concludimus praterea, crudum omnino non purgare: calcinatum vero, non nifi per adharentem, & vi ignu exaltatam potentiam veneficam, commoventem (piritus, & humores in tete corpore violenter concitantem ; itaque neque crudum, neque quemodocunque uffum, intra corpus fami debere, cum venenum fit, & ftatim, vel

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non ita multo post ipsim receptionem gravissima apportet symptomata, que hominem in extremam deturbant perniciem.

I will not here mojest the Reader with a tedious translation of these words, but only reduce them unto these affertions, to which I shall return

particular answers.

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1. Antimony in its whole substance is poylon, and therefore ought not to be made use of by men, whose natures ( as other poylons do) it destroyeth.

2. It is porson because of its similitude to lead, which (as all men know) ought to be reckoned

amongst poyfous.

y. It is poylon, because of its malignity: For whilft it is a calcining, it emistes a virulent and venemous smell and exhaustion, like that of orpoment, from which (as from present poyson) Chy-

wifts do advise to proserve the Nose.

4. It is poylon, because of its imperset of rection: for Petrus Matchiolus upon the sists Chapter of Dioscorides, bids boyl it with Berant to take away its venomous faculty, or add Treacle to it; also the born of the Unicorn, and species Diamoschi, and such like alexipharmicks are by others advised to be mixed with it.

5. The purgations, convultions, and other fad.

Improms, which are incident unto the uters of it, declare it to be possion; which incontinently, or ut long after the receiving of it, redatteth man to

extream ruine.

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6. Antimony purgeth not any particular humor, but promisenously all, both good and bad; as other purgetyes do not, which purge by similitude of their essence or form, and do therefore purge their proper humors, according to Hippocrates, in his book de natura humana.

j. Calcined Antimony, by its whole substance and faculties (which are mast destructive of humane nature, and most inimical to the beart in particular) purgeth not at all of its felf, hus actidentally: for it having most fearfully amaked the humors, and writated the expulsive faculty, they

are confusedly expelled.

8. Crude or natural and unprepared Antime-

my purgeth not at allas

9. Calcined Antimony purgeth not, but by an adherent, and by the frength of fire, exalted venoment power, which violently commoneth all the

frirsts and bumor of the body.

As to the first, which consistest of an antecedent and consequent. By the antecedent, he will have Antimony to be one of those venemous things, que corrumpunt complexionem bumanem anon fola qualitate, sed propriatate, which is the only definition competent unto such as Sommertus termeth Venena prasentanea (as Arsenich) and which we do dany at all to belong unto Antimony.

1. Because crude Antimony doth produce in man, none of those lamentable accidents which other venemous things do, as vomiting (as this Author consesses) purging, convulsions, &c. before

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before it be prepared by art. 2, admimony prepared (whereby its vomitive and purgative faculties are awaked) doth (when skilfully prepared and exhibited) handfomly evacuat bad humors, which, if they should be retained, would prove most corruptive of the humane complexion. 2. Antimony Diaphoretick (which is neither vomitive nor purgative) doth excellently expell by fweating, all venenofity. 4. If Venenum be defined (as Sennertus also doch) id omne quod aprum of nobis vehomenter nocere, per occultam agendi rationem, it is undentable that Antimony is one of those: as also Wine (immoderatly and unscasonably taken) Saffran, and what not. Yea, Sennerens relateth a ftory of a Merchant (Menissna pract, lib. 6 part 5. cap. Ti de matura veneni) who did eat at Supper fleft wherewith much Saffran was boiled, and immediatly thereafter, he had almost died through laughter. It were superfluous to ad more to this purpole, seing the practice of all Physicians) who have any knowledge of Chymifiry) doth demonstrat, that Antimonial medicaments (externally or internally used) do operat as

innocently, as any others.

As to the fecond (which is a most confident affertion, destitute of probation, and most unbeseeming a Physician, who for each of his affertions, ought to have in promptu causam) I do first deny Lead to be poyson, in any other respect, than I have conceded Antimony, Wine and Saffran to be such, in the fourth answer. And secondly, I deny the consequence:

consequence: for similitude of external formes, can never infer a similitude of internals, especially when the effects flowing from both the internal formes, are most discrepant, as in Antimony and Leads

For the third, that is emisses a virulent and vememous smell and exhalation, like that of orpament, from which (as from present poylon) Chymists do advise to preserve the nose. I answer first, that neither of these exhalations are poylonous a for I have often breathed the air, that was vitiat with both (and oftest that of Orpament, yea, of Arsmick itself, when burned) yet was never prejudiced.

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2. Though it were true, that the exhalation of Antimony is poylonous, doth it argue that Antimony, after calcination (whereby it is freed from that poylonous exhalation) is still venomous? It doth certainly demonstrat the contrary (as in Antimony Diaphoresick) or at least, that its venenosity is much diminished, as in Crocus Metallorum, Moreover, is not the fieth of vipers, an excellent Alexipharmick or antidot against poylon, when the head and gall (wherein its venom doth reside, according to Schroderus) are separated from its

To the fourth, viz. that it is imperfettly corrected by Borax, Treacte, &c.) I answer, I. this Author should have evinced by reason, that none of those mentioned Alexipharmicks, were capable to correct the venenosity of Antimony, and not have given his nudam affertionem for it. 2. Although he and his informers could never attain the skill

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t |skill of preparing it, io as that it would not produce any of those sed symptoms; should others who have attained it, be by him, or any, prohibited to use it; when frequent experience hath discovered unto them the innocency and usefulness of its operation.

As for the fifth, the fad and lamentable symptoms which is produceth. I answer, that I never found the like, save once, notwithstanding of which I have fill made use of it, with good success; and therefore every one would make use of it, as he shall find encouragement, from its peaceable behaviour.

Concerning the fixth (viz. that it purgeth not elective, as they fay, any peculiar humor, as others do, viz. Bile, Melanchely, &c. but promifenonfly all, both good and bad) I answer, I. that it is well afferted, but ill proven. 2. I will not contradict that opinion so generally received by the learned, that fome medicaments are Cholagoga, other Melanagoga; &c. but only declare, that though I be by experience convinced, that fome have a natural aptitude to purge Bile more then any other humor, and another fort for purging of Melanche 17,&c. Yet whenfoever a potion composed of either fort is exhibited to any person, it doth promiscuoully evacuat a part of each of those humors which it encountereth; and this is undeniable by my who have been diligent observers of the egefa, which (in valetudinary persons) is as necessary, as the noticeing of the ingesta, 3. The affertion may be denied to for I have known an Antimonial potion evacuat a pound of Bilis porracea, which was
the only cause of a constant vemicing two or three
hours after meat, all that the person had taken at
the last meal; as also another pound of Bilis Via
sollina, mixed with pitnita salsa; wherewith the
internal wrinckled superfice of the stomach, being,
as it were, daubed, it and the other humor occasioned an indigestion of the meat; and in other
produceth either a lienteria (when meat is evacuated by stool, without being at all altered by the
stomach, which being slippery, cannot retain it;
as when its wrinckles were not daubed with the
humor) or Coelica passio, wherein meat is excerned
after being but a little altered.

Seventhly, he affirmeth, that Antimony purgeth not of it felf (as other purgetives do) but assidentally. This is all one as if he had faid, that Autimony purgeth, as drink, fruits, &c. (which are not purgetive of themselves) do, when a perfon hath taken a surfet of them, whereby nature being oppressed, it doth impetuously expell them and other humors, both good and bad, with themself alsity of this is so palpable, that it were folly

to let about the refuting of it.

The eighth is an irrefragable truth.

The ninth doth not well express the Authors meaning, which I conceive was (at least should have been) this, that so long as the natural mission of the constituent parts of Animony, is not altered by fire, the vomitive and purgative faculties

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of it, do not discover chemselves, but so foon as the Sulphur is freed in some measure from the bonds of sale, by which it was formerly settered, it doth communicat it self unto the affused siquor, and draweth along with it the nitrous volatile sale, in both which residents the vomitive and purgative

virtues of Astimony.

I shall add (for a Colopbon) the reason why the foresaid water workerh not, but when it is caken by pounds, viz. because it is impregnat only with the putide Sulphur of Antimony : for if it were inriched with the Earth, volatile falt, and best Sulphur (that is, fuch as is not become putide, by recrudescing in fermentation) of Antimony, as is Spanish Wine, wherein the Saffran of Mettals hath been infused, it would, by ounces (as this doth) commove and purge out the humors, and contain such a matter as would be precipitable by fome liquor: for the earth of Antimony (wherein do exist the Sulphur and volatile salt, which commove and purge out the humors) doth by precipitation separat it self from Spanish Wine, when some drops of Aqua-fortis are mixed with it. But the water of the Wells containeth no precipitable Now that the vomitive and purgative qualities of Antimony, existeth in the Sulphur and Volatile falt, is hence proven, that Diaphoretick Antimony (which is Assimony that is totally deprived of Sulphur and volatile falt, by calcination) saeither purgative nor vomitive; and the fublimed flowers of Antimony, are most purgative

and vomitive. And hence it appeareth, that in Diaphoretick Antimony, the virtue of Antimony, which attracteth and purgeth humors, it not imprisoned, but banished, by Nitre.

Courteous Reader these are the things which we learned from the operations of Art and Nature; but if any shall (from the same or like principles) prove, that the fore-mentioned water runneth through Brimstone, or Visriot, &c. we shall most wilingly atknowledge an errour; in the interim, In magnitude of the company of th

In things of great excellency, Let the endeavour (atisfie.

And upon this account, we will plead for par-

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## APPENDIX,

Concerning the faltness of the SEA, de.



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> Hat the truth of what hath beco faid may thine more clearly, we must refell fome opinions of D. John French; who in the 2 Chapter and 22. page of his Bo k, enticuled, be Torkfire Span, afferreib, That

there can no other realon be given for bot fprings than the fire which burns in the very capities and taverns of them, the causies themfelves confift ing of (or rather being replenished with) a Bienminous matter. For Bitumen, and thefe things which are made of it, being kindled, burn in water N (de Campbire also dotto) a very long time; which tou di not be, untels is were fed by the monfture of the maten which at did attract and convert into its was nature. And in the 14 Chapter, concerning the purside Sulgiver well, about the middle of page 107. The stinking odour thereof, I suppole is casted from the vapors of the burney The tumen; and adust terrenels mixt ther mith which lye not far from the bead of the Will. page 106. the (aline/s of the Sea proceedeth from the Salt of the burns Bitumen, which is diffolved in the water, that rantbrough thefe veins of the earth, whereis it was , which (page 106. and 107.) he confirmeth by the example of the Like, called Afphalsites. And in the beginning of the 108. page, he afferteth, That is cannot be edtio. nally conceived, that the whole Sea received all its falt into its felf at one time, after a natural may, and aberefore being (uch a great body, muft became fulrish by little and little, even infensibly. The falsehood of these opinions will manifeltly appear by confidering.

that there is a perpetual subterraneal fire (of burning Bitamen) which doth naturally heat the wavaerra was Because it is not probable, that there was ever so much Bitamen in any subterraneal place, as would, by its stame, have heated the waters, which do every where spring out of hot fountains. It as Neither's it probable, thus there is so much with any cavity of the earth, we would necessarily (for so avoid the penetration of dimensionally) give place to so much single the inflamed Bitamen; did paid ucouche, so related heat, when the fire would than string place, when it followed its sliment, and

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fo the water of the fountains would not be alwaies impregnat with the same degree of hear; because the fire which heateth them, would not alwaies be equidiftant from the fountains. In the 25. page of the forementioned Book, the Author an-Swereth to this argument, saying, that flame is nourished two wayes; I. When it followeth its food. as in the burning of wood. 2. When the food followeth the flame, as doth Oylin a Lamp : and thus (faith he) is the flame of the Bitumen nourished : neither is this falfified by the flame of Brimftone, which followeth the mater. For (faith he) the Bitumen is melted by the great heat, and lo it followeth the flame, and continueth the flame in the fame place. But I reply, 1. That flame doth alwaies follow its food, neither doth Oyl follow the flame in a Lamp; but one part of the Oyl being continuous to another, doth follow it, whilft it is a confuming by the flame. That you may the better understand this, you would take notice of the reafon, why fome sulphureous bodies (as Camphire, Turpentine, &cc.) de of themselves take and conferve flame ; when others (as Tallow, Bees-wax, Oyl of Olives, &c.) do neither take nor conferve it, but by the help of others, as of Linnen cloatb, Paper, Rubes, &c. The cause of these things we conceive, yea affirm, to be this, that the first fort are bodies which contain much Sals (for they are very fapide) which doth still detain the Sulphur, even when it is converted into flame; and the last fort are bodies almost void of Salt (becaufe infipide

pide almost) which do not take flame; because they cannot conserve it, unless they be affociat to the Sulphur of another body (containing much Salt, which detaineth its proper Sulphur) and fo take flame with it. From thefe things it doth appear, that flame doth al waies follow its food : especially feing the threeds of the Candle and Lamp, do wast and consume by the flame, whilft it followeth the Sulphur of the threeds, which is its food, whose consumption is retarded by the Tallow in the Candle, and Oyl in the Lamp, which do nourish it. 2. It is not probable, that all the Bisumen is liquified, 1. Because the flame of the kindled Bieumen, liquifieth only the parts which are neareft to its felf, as happeneth in a Candle, Brimstone, red Wax, &c. 2. Whosoever will fay, that the Bitumen followeth the flame, because it is melted, he must also confess, that there is some other fire beneath or above the Bitumen, which melceth it; and this would infer the abfurd progrefs in infinitum. 3. Nor can the flame of the kindled Bitumen, by heating the caverns of the earth, liquifie the rest of the Bitumen : because (as was faid) it is not probable, that there is a place in the bowels of the earth, which would contain fo much flame, as would, by its heat, liquifie all the Bitumen which is within four, five, or fix miles unto it; the contrary whereof must of neceffity, be confessed, by him who will affert, that the flame of the kindled Birnmen, changeth not its place, by following its food. a. Ie

3. It is most falte, that Bitumen, Camphire, and fuch like, which burn in water, do retain their flame longer, than if they were out of the water, because they convert it into their own nature, by which means it becometh food to the flame; but the cause of their longer burning in the water, is rather, because their external superfices (the up. permost only excepted) are humceted by the water, which prohibiteth the flame to feize upon all their external parts (as happeneth when they are inflamed out of the water) and fo they burn longer ; because a few only of their parts are inflamed. No man, who will be at the pains to put a little inflamed Campbire into water, will question the truth of this : For he will fee the flame excavat the Campbire, and at length extinguished, when it penetrateth unto the external parts, into which the water hath infinuat it felf.

3. Although the flame of Bitumen were in the veins of the earth, yet its vapors could not communicat any putide smell unto the water. 1. Because of the fore-mentioned reasons, when we wrote of inflamed Brimstone. 2. Because they sontain no terrestrial adust matter: For, 1. no such matter (capable to communicat such a smell) doth ascend from any body whilst it is a destilling, and far less therefore whilst it is a burning. 2. Because smell proceedeth only from Sulphur; whereof, such earth (which did pass through the fire) would be most destitute. It were therefore more consonant to reason and truth to say, that the putide

tide smell of the fountain (of which this Anthor writeth) doth proceed from the Sulphur of Birnmen (or of any other thing) which is recrudeling and evaporating, whill it is a fermenting.

4. Seing the Sea is a great body, it is more probable, that all its falt was concreated with it, in the very inftant of its creation, than that its faltness was, by little and little, communicated unto it by the falt of the Bitumen, which was burned in the caverns of the earth. For, I. feing, fea-falt (which mature coagulateth in many places, as at the Rockel in France, and in many places of Spain) is fuch an ufefull and necessary thing for man, it is incredible, that God (who created fo great a variety of creatures for the use of man) did not, at the beginning, creat it with the rest, than many of which it is more usefull. 2. Seing every pound of Sea-water containeth about a drachm of falt ; and the Afphaltick Bitumen ( which is found upon the shore of the Lake Asphaltites, which is called eminently faltish) scarcely containeth any faltness that's perceptible by the tafte; it is probable, that a mass of Bitumen (though calcined, and equiponderating the terrestrial Globe, could not communicat fo great and perceptible faltness, to fo great a body as the Sea is. Moreover, the ashes of the Asphaltick Bitumen (from which the Sulphur is separated by burning) do scarcely contain any faltness: for it is a sulphureous body, which, of it felf, will hardly take or retain flame, unless it be affociat to the Sulphur of burning coals. 3. Seing

it is most probable, that the falrnels of the Afphatent ake proceedeth not from the Birumen which is not diffolved to the water, but I wimmeth only above upon It, and is thereby at length ejected upoh elle flrowy ads more probable, that neither the faltness of the Ocean is communicated unto is byothe Bicumen, Teing it containeth no fuch matters as Scing, wideha Labour Aphalistes in in the fame place, where were Sodem, Gomorrah, and the valley which was full of bitumenous, or fimie (Genel 14.10. ) and fale & Siethe Englift Andorations on Jolhan, 15. 621) pire. 2. Seing then the forefaid Eiries and v Mig were caltined (or incinerat) by Fire and Brimftone (which we proveduo be most faitash) which came down from heaven Gon. 19, 24, 254 3. Seing the ather of all raloined bodies, de contain which ale, which namically attracted the humide air, that fo it may begdiffelved by deliquition; without all doubt, the great faltness of that Lake (which is called eminently faltills) proceedeth only from the affect of chose things which were then calcined, whose falt didiateract che humide air, which did convert itinto a liquor, which was afterwards augmented by Rain and the Roomlers, which ran that way. So that it is probable, that that water is fallib for no other cause ; seing there are many great Lakes, whose fweet waters do penetrat, sfar into the bowels of the earth, as the waters of the Afphaltick lake, and many bayes of the Sea do. Moreover, this continual attraction of the air (be-GA cause

Esule of the Salino-Intoburcous fpirit, that is diffuled through it) produceth in the air, a perpetual circulation of /niphureous and falinous /piriss (for the fixed falt of the water attracteth the falene (ulphareous (pirit : and the more volatile parts. whether falinom or fulphureous, which are diffolved in the strange humide body, do confiantly attempt anavolation) which cendreth the birde valetudinary, when they transvolat the Lake and at length killeth them. And it is the very-like circulation of ipirits, which cauteth persons ( who are not accustomed to navigation upon the Sa) naufeat or vomit, when thefe falinous and futphareans (piritt, which are in their circulatory motion, do enter the body with the air. Now that there is fuch a falino-fulphureous (piris ( which it the universal (yet subservient to the firft) coufe of generation) really exiting in watere, is fufficiently proven by thefe four not ordinary areaments.

the flux and reflux of the Sea, remaineth berren for a rime, after that the Sea deferteth it; viz. until that Salino-/ulphureous/piris have infinuate telf into it: for whenforever this cometh to pass, then all forts of vegetables (whose freeds or roots, were fembrated or planted there, or brought thither by the rain, from circum-juent places) begin to germinat in it.

a It is the very Salino Salphureons Spirit, which infingateth it felf into the earth that is al-

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for most barren; and maketh it more fertile, when it is per mapured for two or three years and the al penetration of this (pirit into the ground, is prour moved by the relicts of its proper Sale, which are tracethit. But when earth, that hath not been nanured for a long time, becometh barren (which happeneth formetimes, as I was informed by one kilfull in Agriculture) that ought to be afcribed anto the fuper-abundance of fairies (which doth often impede generation : for a woman immediatly before her menftrual flux, doth feldom conceive. For which look the fecond Thef that was difputed in medicinal School at Paris, Nov. 22. 1656.) or to some other difease known perchance to Hufbind-men, bis brotott daiw box

2. It is the very Saline-fulphureous fpirit, which is diffused through the air, that maketh Heathy, wilde, and almost barren, places, more fertile, when it is attracted by the Lime which they of upon the ground; for, the fixed Sale of the tials, which is united to the earth of the stones, by calcination (when the Lime is a making)promoveth the attraction of the forefaid fpirit; and the earth is rendred more apt for the generation Wegerables, which require more Salinous and supporcous (pirits.

4. In the Ilus of Orkney, the attraction of this lalino sulphureous spirit, is greatly promoved by the falt of the Sea-ware, and after of Peats, wherewith the inhabitants are accustomed to dung their ands, which are also much fatned by the abundant Sulphur of the same vegetable. Here

Here I will acquaine you with an observation, be which by many reincrated experiments, I know tol ica be most certain : And it is this, when Logh loschen are applied to the inhabitants of Onkney, they fall off fooner, and fuck lefs blood, than when then the are applied to fuch as live in the South-parts of the Kingdom. I conceive the reason of this to be the faltness and acrimony offtheir blood, which make eth those Animals, constantly to defift, longere they be full of blood and this acrimony or feltnels, doch (without all doubt) proceed from the fatt of the forementioned Sea-ware, which causeth the Barles and Outs falle only Corns which grow and there) to be more falt then in other places, where the earth is not dunged with the forefaid veges abla and and after. This allow with the much cating of fend falred Fiftes by the vulgars there, is the canto ir why multitudes of them, are molested with Will 100 cers of all fores, Cangers especially. I do acknowed the ledge, that elfewhere, Logb-leaghes will fomen and times fall off ere they be full: But the caufe of trai this is, the exuberancy of blood, which cometh for so imperuously upon them, that it is like to chosked cafe them, for which they delift from fucking ; as M children ordinarily do, when the Nune her milk the doth molest them, after the same manner. For the the fame reason also, the most part of strangers, who go to relide in the Ifes of Orkney, are an first molested with a Diarrhan or Flux : the acris monious faleness of the bread and drink, irritating the expulerix faculty, more than ordinary, untill it be

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be accustomed with the same. This also is the to reason, why the inhabitants there (for the most beg part) de require a far stronger dose, of any purgaall live or vomitive medicine, than those who live in the South ; because their expultrix faculty, being he accustomed with the acrimony of bread and drink, he which will prove purgative unto others, who are her not accustomed unto it, requireth a stronger medicinal exciter.

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We thought it not unworthy of our pains, to he offer unto the consideration of Naturalifts and Mathematicians, our opinion concerning the fine and reflux of the Sea, before that we should have me out a close to these things concerning the Sea; and it is thus, feing the Moon doth by her preof fence refrigerat all fublunary bodies, especially the ille ir; and feing fixed falt doth attract the cold. air fooner and better than the hot, we conceive, that the fixed (alt, which was concreated with the Sea. the and diffolved in its water, doth abundantly atof mach the air that was cooled (or fo disposed by the some other quality, that it might be the more is a fily attracted by the falt ) by the presence of the-Moon, or of the opposit point in its sphere; and fo the quantity of the water is greatly augmented, and the water is again by little and little converted into air, when the air lofeth its forefaid quality, by the departure of the Moon, or of its opposit point, from the meridian. This opinion is sufficiently proven by this argument ; viz. that Sea-ftones, which are most faltish, do attract the air, when

is is altered, as was faid, and do become fo wet that water droppeth down from them : But when the air lofeth its forefaid alteration, then the maser is again converted into air, and the stones become dry like others. Moreover, this humecland on of the stones, doth, as it were, observe the fet times of the flux and reflux of the Sea. It is true that in very moist weather, these stones will be constantly wet; because of the frigidity of the zir : but yet they are more wet when the Moon is in the meridian, than at other times : fo that this doth not in the least render our opinion improbable.

From what hath been faid, it may probably be concluded I. that the Sea-water is not fo faltish, when the Tide is at the height, as when it is a Low-water ; because then its fale is diffolved in greater quantity of water. 2. That Sea-water, taken from the Ocean, would observe the set times of the increase and decrease of the Son, if it were put into a Weather-glafs (or a glafs of the same fashion, bermetically scaled) seing it is impregnat with an active principle (Sals) whereof common water is destitute, which nevertheless doth alter, according to the mutations of the air, by occupying of a larger place at sometimes, and a leffer at another.

Having, fince the publication of this opinion in Latine, more feriously confidered it, we conceive it needfull now to declare, that we do not believe this most real transmutation of air and water to

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be the adequat and only cause of the Ebbing and Flowing of the Sea, but that it is not one of the hen least considerable causes of this most admirable effect, the full and exact knowledge of whole becauses, it seemeth the Almighty hath reserved ונוunto himfelf. fet

These things we do freely offer unto all, to be cenfured according to the difference of opinions

concerning them.

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# is Some Spagyrical operations of nature, added in fead of a Conclusion.

THe first is Destillation. For vapors being elevated into the second region of the air (which is cold, as the head of a Still) are there tondenfed, and do from thense fall down in drops.

2. Sublimation (as it were) of Snom.

3. Chrystallization of Sal-Gemma, Ice and Hail.

4. Congulation of Sea-falt, by the heat of the Sun.

is 5. Calcination of Horfe-hones (and of other of animals, which die in the fields) by the folar rayes. ·fs

6. Filtration of water through the veins of the earth: for it is most limpide which cometh out of fountains.

7. Dulcification of Sea-water, whilft it paffeth through the bowels of the earth : for it is the very fame (being sweetned) which springeth in fountains, Eccle fiaftes, 1.7:

3. Circulation

8. Circulation of Salino-Sulphureous spirit in thesa per fice of the Sea, of which before. The transmutation of the Elements also, is a kind of circulation.

9. Salification of Nitre, in the concavities of

Caves and Vaults.

To. Fermentation, which doth alwayes preteed generation: for there is no corruption, without an antecedent fer mentation, as appeareth from the premises.

ri. Solution of Minerals by water, which impregnat with some corrosive sale, as was said concerning Antimony, in the description of Mos-

fet-Well.

C. rentaires

12. Conflagration of Thunder.

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13. Aurification in the veins of the earth, which many Spagiricks have, in vain, essayed to

imitat upon its superfice.

Therefore the Spagyrical Art, is a most excellent imitatrix of Nature, from whose principles and operations, we may collect, most probable causes for (almost) all effects, whether natural or artificial.

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A Topographico Spagyricall description of the oyly-Well, at St. Catharines-chappel, in the Paroch of Libberton.

To this is subjoyned,

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O R,
A description, &c.

B Y

MATTHEW MACKAILE,

Chyrurgo-Medicine.

Edinburgh, Printed for Robert Brown, and are to be fold at his Shop, at the Sign of the Sun, on the north-fide of the Street, over against the Cross, 1664.

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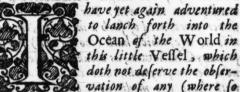
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## France and september of soften and appropriate

### The Epistle to the Reader

Courteous Reader,



many others, more excellent and stately do appear, adorned with the finest fails of rational discourses, supported by the surest experiments, and furnished with most irresistible arguments, which do conclude only the weightiest of truths, for the routing and linking into silence, of those irrational Pirats, who do what they can, altogether to hinder our arrival at the haven of verity) were it not because of the rarity and usefulness of the commodities which the carrieth: For furely they will be delectable to some, and usefull to all, who have had so great a benefit by Nature conferred upon them, as is, understanding not to abuse that, which might prove usefull for them. They are such things as have pal-

fed through the Refrigeratory of my vulgar Brain, and which I offer to be rectified through the Serpens of a wifer, that the World may be presented with a Destillatum. which may prove magis restaurativum of truch, than this will: For the world had never more need of such a medicine, thanin this our age, which bath (too too well) nurfed fo many Charletans, as betake themselves to no other employment than cheating all men with some one medicine or other (as Coffe, Chocolat, or Jacolata, &c.) to each of which they ascribe more virtues, than any ten can have, and give them to all such, as will be so foolish, as to hazard the difturbance of the aconomy of their bodies, in the hands of those, who are as ignorant of the nature of the instrument wherewith they do it is are the veffels which contain them, "and far more of the way of restoring the greatly disturbed body, to its pristing healthfull condition. Such Cheaters are those, who fill the publick places of every Town they come to with Programs for the end forefaid; or elfe arrogantly do assume to themselves the skill of curing, first, some particular diseases infallibly, and then all others curable by art, at

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a cheaper rate, than any other; and to thefe. they add many detracting expressions, which may prove derogatory to the reputations of the Physicians of the place, though never so learned; all which are the most infallable marks of a Cheater. Yea, their wandring all the world over, doth underyably argue them to be such: for when people do perceive, that their medicine hath scarcely any one of those virtues which they ascribed unto it, and that their skill in curing is only palliative, they cease to employ them any more, and thereby they are constrained to begin, and to set up in another place, for getting of a new recruit of money, which they would have got to excess in any one considerable Town or Country, if they or their medicine, could have cured the Gout, Chollick, Stone, &c. Such blades are pleafed sometimes to erect Stage-playes in the Macrocosme, that by their skill in those, they may allicite men to permit them, to crest the like in their Microcosmes; which they often do to the fadlamentation of some . I have letfly this Broad-fide of exclamations at those of our age, who are most guilty of such actions; as also at such as have been so foolish as to believe, that every far fetcht fowl hath fair feathers : and (o have been very ingrate to their Maker, who hath furnished their native Country with such an abundance of most able and skilfull Physicians, and remedies of all forts (purgatives and spices only excepted) asmight (with very little help from our neighbours) ferve in the greatest necessities; as also to those well-deferving Country-men, who have frent the most and best of their time and means (and in travelling have ventured their lives) for the good of their Country. I hope the Echo of thefe exclamations will prove; in time coming, a warning-piece to all fuch as have been lo wife to bear off, and not to go near fuch Pirats, who rob so many not only of their mony, but also of their healths; and that the most part of those children who have been burned by them, will (in time-coming) dread their fire. I shall only add an earnest desire, that you would accept this, and what followeth, with as charitible a mind to me, as mine is wel-wishing to you, and make such a good use of them as you may; in doing of which, you shall neither wrong your (elf, nor him, who is, and will fill be

Yours, as he shall have reason,

M. M.

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## **PARTICLE SEEDING**

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## OYLY-WELL:

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A Topographico-Spagyrical description of the oyly-Well, at St. Catharineschappel in the Paroch of Libberton.

N the Paroch of Libberton (the Church whereof lyeth two miles fouth-ward from Edinburgh) there is a Well at the Chappel of St. Catharine, which is distant from the

Church, about a quarter of a mile, and is situat toward the South-west) whose profundity equalleth the length of a Pike, and is alwaies replet with water; and at the bottom of it there remaineth a great quantity of black Oyl, in some veins of the earth.

His Majesty King James the sixth, the first Monaych of Great Britain, of blessed memory, had such a great estimation of this rare Well, that when he returned from England, to visit this His ancient Kingdom of Scotland, in anno. 1617. he went in person to see it, and ordered, that it should be built with stones from the bottom to the top, and that a door and a pair of stairs should

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be made for it, that men might have the more easie access unto its bottom, for getting of the Oyl. This royal command being obeyed, the Well was adorned and preserved, until the year, 1650, when that ex-crable Regicide and Usurper, Oliver Cramwell, with his rebellious and sacrilegious complices, did invade this Kingdom; and not only deface such rare and antient monuments of Natures hand-work, but also the Synagogues of the God of Nature.

Before that we proceed any further, let us inquire from whence the water of all Springs (such especially as are most frequently deprehended upon, or near unto, the tops of high mountains) do proceed. The opinions of Philosophers concerning this affair, are these three, which are mentioned by Frambelarius in his natural history, and Dr. Andrew Baccius de Thermis, lib. 1. cap, 2. and by Dr. John Franch, in his York-shire Span, chap. 2.

The first is Aristotles, viz. That these waters are generat of vapors (which are contained in the taverns of the earth) and of air (infimuating it self into them, by the conduits it encountreth) which are condensed into water, by the frididity of

the earth.

The second is, that these waters are only Rainwater, which having infinuat it self into the veins of the earth, maketh way for its ewn egres; by the most convenient passages. STC

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The third is, that thefe waters come from the Sea, through the veins of the earth; according to that faying of Solomons (Erclefiaftes, 1.7. All rivers run into the Sea, yet the Sea is not full : unto the place from whence the rivers come, shisher they return again) who was the wifest of all meer men, who were before or should be after him, I Kings, 3. 12. and that not only in fpirituals, but also in naturals : For the Scripture ( I Kings, 4. 33) faith, that be fooke (by which you may well understand writing also ) of Animals and Vegetables. He was alfo, no doubt, as skilfull in the art of Navigation, and knew well the natures of Minerals, Seing (I Kings, 9. 26, 27, 28. and 10. 23.) be made Navies of fbips, which be fent wish his fervants, that had knowledge of the Sea, unto Ophir and Tarshish, from whence be brought gold and filver, in fo great abundance, that in his dayes filver was nothing accounted of, I Kings, 10. 21. He was also no less skilfull in Apricalture, as may appear from Ecclefiaftes, 2. 5. And his making of Pools of water (ver. 6.) demonstrateth his dexterous skill, in finding out the Subterranea) passages of water.

As to the first of these opinions, we cannot embrace it, because of these reasons, 1. It is most improbable, that there are such large caverns in the earth, as will contain so great a quantity of vapors and air, as, being condensed, would afford so much water, as doth daily scaturiat in springs, which are upon high mountains: For ten Gallons

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The Oyly-Well.

of air will scarcely afford one Gallon of water, as all will acknowledge. We will make use of this argument, not only in relation to fuch forings, as proceed from the tops of high mountains, but also in relation to fome which are in lower places, and environed with mountains; one whereof we will instance, which perpetually, every moment vieldeth many Scots quarts of water ; and it is that known Well in Carrick, at the Wel-tries, near to Maybol, unto which Well, no man (who knoweth the Country betwixt it and the Sea well-wards) will deny its original to be from thence. 2. If the water, which doth featurist from, or near unto the top of an high mountain, doth proceed from vapors, which have been condensed in the caverns of the fame mountains, these caverns being (of necessity) below the caverns from which the water issueth, it feemeth impossible, that the water can naturally ascend, from the lower unto the higher parts of these caverns, which are at the tops of the mountains ; because water doth naturally ascend no further, than it did descend. We will notwithstanding acknowledge, 1. that there may be fome fprings upon, or near unto the tops of some mountains, which do not proceed from the Sea immediatly, but rather from fome Logh, whose superfice is more distant from the Centre of the earth, than the fprings, and whose water cometh from the Sea immediatly, after that maner, of which you shall be informed afterwards. When water iffaeth flowly from the lower part

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of a mountain (as from St. Anthonies Well, at Arthur; leat) it may proceed from vapors and air, which have been condensed in the caverns of that Tame mountain which are above the place out of of which it issues.

The second opinion is no less improbable; because it is incredible, that the Rain-water, which doth at sometimes only fall upon mountains and valleys, can be the only water, which doth perpetually scatteriat in all sountains; and that as abundantly from some, after a long summers drought, as after the greatest abundance of brumal showers.

We will here likewise admir, that there be many springs issuing from mountains, which are surished with no other water, than the bottles of the clouds do afford unto some valleys, whose superfices are surther from the centre of the earth, than the foresaid springs, whose waters are perpetually increased by Raim, and diminished (totally sometimes) by drought. But these are not the springs, concerning the original of whose waters we are inquiring; and therefore all arguments which are, or may be taken from them, can conclude nothing against Solomon his forementioned affertion.

The third opinion, which (as was faid) is founded upon Solomon his affertion, is also dubitable; because it doth necessarily infer this improbable conclusion, viz. that the superfice of the Son, is higher (that is, further distant from the centre of the earth) than the orifices of these subtractions, from which its water is alledged to issue

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forth upon, or near unto the tops of mountains, shough never so high; and that because of the fere-mentioned Axiom, viz. Water doth naturally ascend no further then it dia descend; as is or dinarily demonstrat, by a stroup of white Iron, which is bowed at the middle.

The verity of the opinion, and validity of the confequence will evidently appear, by proving the conclusion to be a certain truth; for the doing of of which, take these undeniable Propositions, from which we shall manifestly infer, that the waters of the most part of springs do come from the Soa, through the subterrancal veins; because of the altitude of its superfice, beyond that of the highest mountains from which water springeth.

Proposition 1. In the evening of the first day of the worlds creation, the four elements did surround one another, that is, the water did compleatly surround the earth (Psal. 104. 5, 6.) the air surrounded the water end the earth, and the element of fire (if there was or is such a thing) did contain within its concavity, all the three.

The truth of this is evident from, Gen. 1. 1, 2. For in the first verse it is expressly said, that in the beginning (that is, in the first day of the creation as ver. 5.) God created the beaven and the earth; and in the second verse, the earth was without form and void; that is, the form of the earth did not appear, because it was compleatly covered with the waters, which upon the third day of the creation, God did gather unto one place, that the dry land might appear, 23 ver. 9.

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Proposition 2. Before the gathering of the waters unto one place, the earth and the waters did constitute one rotund Globe, and never fince, but when God commanded them, for drowning of the world, to return unto that their first position or dituation, wherein their superfice was fifteen enbits above the top of the highest mountain ( Genes. 7. 19. 20.) And that, 1. through the fountains of the great deep (Gen. 7. 11.) or veins of the earth (as Job, 38. 8.) the latter half of which verse, doth, without controversie, relate to the floud of Noab. 2. Through the bottles of the clouds (unto which they had afcended into vapors, and) from which they did descend, for malixing of the hard earth, that the fubterraneal waters might the more eafily conciliar a more facile egress unto themselves, by new passages, through the superfice of the same.

Proposition 3. From the third day of the worlds creation until the flowd of Noah, and fince that after the flowd, the waters returned from off the face of the earth (Gen. 8. 3.) and the dry land appeared (ver. 5. 11, 12) the middle of the superfice of the Ocean (which we conceive most probably to be beneath the Artick or North-pole) hath been, and is further distant from the centre of the earth, than the top of the highest mountain. This Proposition is undenyable: for, if when the waters surrounded the whole earth, their superfice was sifteen cubits higher than the top of the highest mountain, far more is it higher now, and hath

hath been ever fince they returned from off the earth; and that (no doubt) unto one (yea their former) place, unto which they were at first grthered, Grm. r. 9. Moreover, its truth is clearly evinced from fobe 28. 10. I brake up for it m decreed place, and let bars and doors, ver. II. And faid, hisberto Shait thou come and no farther, and bere shall thy proud waves be flaged. For these verfes, and the first words of ver. 8. of the fame Chapter, and Job, 28. ver. II. (He bindeth the flouds from over-flowing, &c.) do no doubt relate unto the third day of the creation, whereon Ga did gather the waters unto one place (Gen. 1.9.) or unto the returning of the waters from off the earth (Gen. 8. 3.) or both, which is most probable.

This third Proposition is also proven, by P/al 104.5. Who laid the foundations of the earth, that it fould not be removed for ever, ver. 6. This covered ft it with the deep, as with a garment, the waters flood above the mountains, ver. 7. at the rebuke they fled, at the voice of thy thunder the bafted away, ver. 8. they go up by the mountains, they go down by the valleys, uno the place which thou bast founded for them , ver. 9. Thou hast fe a bound that they may not pass over, that the turn not again to cover the earth ; ver. 10. # fenderb bis fprings (that is, permitteth the fpring) to pals) among the bills. And, Prov. 8.28 When he strongthened the fountains of the deep, ver. 29. when he guas to the Sea bis decree, that

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the waters flould not pals his commandment. Seing it is most evident, from these places of Scripmre (especially from P/al. 104. 9, 10. and 706, 28. 11. and 28. 8. 10, 11.) that the Sea hath a natural and perpetual inclination unto turning sgain to cover the aarth (whereby all the parts of its suprefice, may be equidiffant from the centre of the earth) and that by the omnipotency only of God it is detained in that fitnation, wherein now it is, we do from them and the forefaid propolitions conclude, that the waters of all fprings feven fuch as do fcaturiat upon the tops of the highest mountains) which run perpetually, do proceed from the Sea, through the subterraneal veins.

For further probation of this opinion, confider. that if the superfice of the Sea, where any of its water doth enter into the veins of the entit by which it is conveyed to the tops of high mountains, were not further diftant from the cestere of the earth than the tops of those mountains, it could never afcend unto them, no more than the water which issued from the top of an high mountain, tould move in a natural maner (as it doth) toward the Sea Shore, if the place from whence it bich proceedeth, were not further distant from the [d tentre of the earth than the flore. e bet

Here we cannot but take notice, how Dr. John French, in his York-fbire Span, chap. 2. pag. 10. 11, 12. denieth, that the middle superfice of the Ocean is higher than the flore, and that there are fuch veins in the earth, as the water would pafs

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through, unto the tops of mountains where fprings are : because the veins in the bowels of the earth, are not wholly and throughout full, at of necessity they mink be, before water will ascend through shem, for preservation of its continuity, and the avaiding of a vacuum, as shofe crooked pipes an by which Wine-coopers use to draw wine out of on veffel into another. For answer, in confide ration of our former reasons, we will as confident ly affirm, as he doth deny, that the middle fuper fice of the Ocean is not only higher than the form but also higher than the highest mountain; and that thefe veins of the earth, are wholly, and throughout, full of water; because if they wen not for the Sea-water could never featurist from the tops of high mountains.

The foresaid Anthor having (as he thinketh sufficiently refuted that opinion, which assent of the waters by the subterrand veins, which are in the mountains (though it according to the express Word of God, Psal 240. 8.) They go up by the mountains, they go down by the walleys, unto the place which thou has founded for them) setteth down his own (pag. 15. 16.) which is this, the water which proceeded from the tops of mountains, is only the vapored the waters contained in the caverus of the earth, which the subterraneal heat (of the burning Birm men, as pag. 22.) did slevat unto the heads of the springs, where they are condensed into water, a water is clevated from the Sea unto the middle

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region of the air, where it is condensed into mater. Having into our Appendix unto Moffet-Well, fhewed the improbability (if not the impossibility) of that his subteraneal fire; for refutation of this opinion, I shall only make ale of the words of his own 2. Arg. (pag. 2.) whereby he refuteth the opinion of Seneca, (viz. That fprings are generated chiefly of earth, changed into water) changing only the words air and corrupted, and putting vapor and converted for them, thus, It is to be wondred at, that leing ten parts of vapor if not moe, forve for the making of one part of water, convainable in the same space, there should be fo much space in the earth for containing so much vapor, as serveth the making of such a quantity of water, as springs daily out of the earth, how is it possible that so much vapor can be converted in fuch a moment? Moreover, as it is most probable (as he there writeth) that the Whole elementary air, being of its own nature most subtite, and not being Sufficient to make such abundance of water, as all the fprings of the earth will amount to; foit is most like, that though there were such a fabterraneal fire, occasioning the elevation of such vapors, yet all these would not be sufficient, to yield fo much water, as doth daily proceed from all the fprings that are upon the earth.

Let us here applied the most ingenious opinion of the most famous Philosopher Remains Des Carres, princip. Philosoph. parte 4. Parag. 65. Us animalium sanguis in serum venis & arteriu, sie

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betwixt the Macrocofme, and the choicest of Animals, Man, called the Microcofme. Not that we think, that the similitude holdeth in all things, but that because of its reality, the foresaid Author, is much to be admired and respected for his ingeni-

ous observation.

description of the Well, which we find in J. Monipery his Memorial of the rare and wonderful things of Scotland, at the end of his Atridgement of the Scotife Chronicles. 2. We shall shew, in what things this description is faulty, 3. Describe the maner of collecting this Oyl, and add such things as we have observed in the Well, 4. Prove, than the forecited Author his opinion, concerning the Oyl, is most probable 5. Set down the maner of its separation from the Coals, 6. Describe the Virtues, which undoubtedly it hath, or in probability may be asserbed to the propose and answer three questions.

Asto to the first, viz. I. M. his description of the Well, these are his words. In Louchian, sine miles from Edinburgh, is a Well-spring, called St. Catharines Well, stowing perpetually mathy kind of black fatness or Oyl above the mater, protecting (as is thought) of the Parret coal, bring frequent in these pares. This fatness is of a marvellous nature; for as the coal whereof is protected, is sudain to conceive fire or stame, Sou this Oyl

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Oyl of a sudain operation, to heal all salt-scabs and humors, that trouble the entward skin of man; commonly the head and hands are quickly healed by the virtue of this Oyl. It renders a marvellous sweet smell. Dr. 7a. Harr also maketh mention of it, to the same purpose, in his Dyet of the diseased, Book 3 chapt 19. at the end.

The Author of the forementioned description is miltaken; 1. In faying, that the Oyl flowers perpensally above the water; 2. In afferting,

that it bath a marvellous fweet fmell.

As to the latter affertion, it savoureth of misinformation, because the smell of the Oyl is most
hike unto the smell of the smoke of Coals, and
their Oyl, which are no wayes gratefull or sweet;
and the first affertion is also of the same nature a
For the Oyl remaineth in the veins of the earth,
which are near unto the bottom of the Well, and
doth never ascend unto the superfice of the water,
but by drops only, and that when the water is
commoved; because some drops of the Oyl, are
then separated from the rest, which are detained
in the veins of the earth, through their viscosity,
by which they are attached unto the earth.

3. The manner of collecting the Oyl is this, the water of the Well being exhausted by buckets, untill the superfice of that which remaineth, be as low as the orifices of those veins, in which the Oyl is absconded, when the superfice of the water is often moved by a convenient vessel, from the side of the Well, where these orifices are, unto the

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middle, the Ogl cometh forth of the veins, and floateth upon the water, from which it is separate

ed, as Cream from Milk.

Here you would take notice; I. that when the well is full of water, there appeareth fometimes form upon it, which is most delicatly variega with thefe colours, blue, red, green , purple, &c (and Chamelion-like) changeth all thefe colours, according to the variation of its polition unto your eyes, either by your moving, from one place unto another, round about the Well, or by its moving its place upon the water, by motion. The reason of this variation of colours, we conceive to be the different wayes of reflecting the rayes of light, by by the forelaid foum, feing it is not altered by any other physical agent. 2. The water of the Will is scarcely affected with the talte of the Oyl, so that it may be justly esteemed as destitute of its other virtues. The reason of this is, because its tafte (and confequently its parts, wherein its virtues do confift) cannot be communicated unto the water, without the mediation of its falt, either fixed ot volatile : But fo it is, that the fixed-falt of the Coals, remaineth inseparable from them, before they be calcined; and the volatile, being witrom, is drawn along with the refinous oyl, whereby its folution in the water is prohibited.

If it shall be demanded, what this John is? We answer, that it is nothing else, but one or more drops of the fore-mentioned oys, which have been by agitation of the water, first separated from the

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rest, which lurketh in the subterraneal veins at the bottom of the Well, and then by a surther commotion, extended over as much of the waters subterfice, as it could cover, when converted into a thin pellicule or seam. The truth of this is easily demonstrat by this experiment; take one drop of the fore-mentioned oys, and instill it into a large vessel full of water, and then agitat the water with a stick, and you shall presently perceive the like seam, which will vary its colours, as was said. The Chymical Oys of Worm-wood will do so also.

4. It is most probable, that the foresaid oyl, is the oyl of Coals : for proving of which, confider 1. that this oyl is most like, in colour, fmell and tafte, unto the oyl, which isl by the Spagyrical Art extracted out of Coals, fave only in that it is not fo ftrong; because it was not extracted by the violence of fire, as this, whose strength existeth in its most active spirits, which the fire bath feparated from the Coals. 2. The artificial oyl of Coals. is impregnat with the same virtue (but in a more eminent degree ) which the Author afcribeth unto the oyl of the Well, as experience bath often reftified unto me. 3. A drop of the artificial oyl of Coals, being instilled into a large veffel full of water, by agitation it will be converted into a foum, which will vary its colours, after the fame manner that the foum of the Well doth. 4. The adjacent ground, fouth-wards, is full of Coal-pits and Lime-frones, which we conceive do tend unto the naturo

nature of Coals, and do differ only from them, as Silver different from Gold; and this difference in easily collected from that Axiom, Metallization is finitely antification. Moreover, Lime from are alwaiss found near to Coals, as we are credibly informed.

Having already afferted, that this oyl is the oyl of Coals, we cannot but also confess, that we are of opinion, that it is the very oyl of the Parrescoal; because this is the most susphureous Coal, whose copious Sulphur, is of a most facile separation, by the abluent water, as it passet through the veins of the earth, in which this fort of Coal is

contained.

5. Whill the water of the well passet through the veins of the Earth, where the Coals are, it carrieth along with it, as much of the oyl, as serveth to make an unctuous semm upon its superfice; and when it passet through other veins of the earth into the well, it encountereth some dryer parts, to which it attacheth it self, untill it is converted into an oyl, by the contraction of its parts, and continual accession of more pellicules. This is sufficiently proven by the forementioned experiment: For if one drop of the oyl be convertible into an unctuous semm (as was proven) why should any doubt, that the unctuous semm may be again converted into oyl, by having its parts more strictly united?

We hope that none will question the separation of this oy from Coals, which are a most susphu-

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reous mineral, seing many vegetables (less or no more sulphureous) do daily lacrimat sulphureous Gums, as Turpentine, Mastick, &c.

#### The virtues of the oyl.

of the Scab, by the forementioned Author. 2. A power of healing all aehing of the Bones; by our learned Country-man Dr. Anderson, in his Cold-spring of Kingborn.

But we conceive, that these following virtues may, upon a most rational account, be attributed

unto its and to the artificial oyl of Coals.

1. It is very probable, that these are excellent Anti-podagrick and Anti-paralytick oyls; because of the intense calidity wherewith they are endued.

2. They are good Anti-byferick oyls, for internal, as well as external use; because of the fetide

fmell, wherewith they are impregnat-

3. They will prove good Ant-asthmatick oyls; because of the aperitive quality, wherewith they seem to be enriched, by reason of the acrimony of their taste, resembling that of the Balsam of Brimfone, which is esteemed one of the best Ant-asthmatick medicines which we have; and is best known unto our Esculapian sons and servants, by the name of Dr. Maenllochs Balsam; because that learned and expert Physician (to his Majesty

King James the fixth, of glorious memory) was the inventer of its more terfs preparation (whereof the antients were ignorant, and) which he left behind him, unto us his Country-men.

7. We shall propose and answer three quefions, one whereof is concerning Coals, and the

reft are concerning Oyls.

Queft. 1. Why do not Coals yield a fixed falt, when exposed to pagyrical resolution? seing they are one of the kinds of minerals, which do most abound in falt. It is answered, 1. that because they do not render this kind of falt, it is not to be supposed, that therefore they contain some of it; for the whiteness of their afhes, and their intense correfive quality, when converted into Limi, by calcination, with ftones of their own nature (as was faid) do fufficiently demonstrat the contrary. . They do not yield any fixed fals; because, when they are calcined, their fixed-falt doth fo corrode the metallick earth, which they contain, that it converteth the fame, with its felf, into a magisterial ponder; from which (as from the magifterial ponders of Pearls, Corall, Lead, &c.) experience teacheth the impossibility of separating the corrofive falt. 3. They afford no fixed-falt; because they are of the nature of Lime-stones, from which (when converted into the most corrolive Lime) it is impossible to extract any fixed-falt. Tefte Zuelfero, Chymico expertissimo, in Animaadversionibus suis, in Appendice in Antidotorum Classem, de falibus Theriacalibus, Pharmacopocia Augustana

Augustana, ab ipfo ingeniof fime reformata, pag.

276. colum. 2.

Queft. 2. Why do some oyls perpetually defrend unto the bottom of the water . as fome oyls which ar destilled by descension? Ans. These oyls being more crass than others, are also more ponderous, and therefore cannot be supported by water, which is endued with more tenuity of parts; but when these oyls are (by reiterated destillations) rectified, and fo deprived of these craster parts, the

water will support them.

Queft. 3. Why do the most part of (if not all) oyls descend unto the lowest parts of fulphureous Spirits (as of wine, Barley, &c,) of an aqueous confiftence. Anf. The tenuity of the /pirit is the undeniable cause, why it cannot support the more crass oyl (unless it be in a most exile quantity) which is most participant of its nature and properties : For, if you will mix fome crass water with fuch a /pirit, it will then support the ayl, to which it formerly denied that service.

Seing the curious Former of all things, hath much embellished the superfice of our Scottifb ground, with so many mineral springs of different natures, and richly enambled its bowels with fuch a variety of metallick markafites (as is well known) it is much to be regrated, that fo few have attempted the discovering of their natures, or (having made some progress in that) adventured to expose their conceptions, concerning either of them, unto Fames fingering. I know not if any OF

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of our Country-men have published any thing concerning our Mettals; and it is to be feared, that there will be little, or nothing done to this purpole in haste, seing it hath pleased the Almighty, to put an end unto the dayes of that most learned and ingenious Mineralogist, the Lord Hopton, who died Dec. 1662. And (according to my best knowledge) there are only three, who have written concerning our mineral Springs.

The first is Dr. Moor, present Profesor of Medicine, in the University of Aberdeen; who published a little book, concerning the Well of Peterbead, in the year, 1636. from which it is manifest, that then (though a student only of Medicine) he was privy to many of the most excellent actions

of Art and Nature.

The second is Dr. Anderson, who wrote most learnedly upon the Cold-spring of King-born, in anno. 1618. and in that his book, mentioneth many rare springs (wherewith Scotland is replenished, and) which we will here infert, because that book is rare to be found. The first is the fpring which iffueth from the top of Rattray-cave, in the Barony of Stains, whose water doth, in a short time, con gele into a hard stone, as faith our forecited Auther also, in his memorial of the most rare and wonderfull things of Scotland. Our learned and ingenious Country-man, Dr. Sylvefter Rattray, dorh alfo make mention of this water in his book, entituled, Aditus novus, ad occultas fympathie, & Antipathis canfas inveniendes. Here you would take notice

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cotice of a story, which will convince you of the possibility of this. A Scottish Gentleman, having been in France, and there acquainted with another of that Country, who (it feemeth) was cutious to know the various and (almost) miraculous operations of Nature, did inform him, by writing, concerning this Well, and its water. The French man returned him this answer, I am forry, that you should think me such a fool, as to believe such a Paradox as this is, that water foould, in a fort time, be converted into a ftone. Whereupon our Country-man fearing least the other should think this a meer fiction, he took the pains, to fet a glass under the droping water, untill it became full, and then he fent the glass unto bim, the water therein contained, being converted into a stone. A very ingenious argument, for convincing fo confident a Gain-Jayer. Secondly, a spring of the same nature, which himself did see in one of the vaults (which were most curiously hewed out of a lolide rock) of Roflain-caftle. Thirdly, two Wells in the Castle of Dumbarton, distant two or three foots, the one from the other; the uppermost whereof, fpringing from north to fouth, yieldeth a very falt water; the other running from fouth to north,exhibiteth fresh water. Fourthly, the Mud-earth Wells of Menteith. Fifthly, the Lady-well of Stra-Sixthly, the Lady-well of Ruthventhearn. Seventhly, this Oply-Well at St. Catharines Chappel.

The third is Mr. William Barcley, whom Dr. Anderson stileth, his very learned friend, and old Parisien acquaintance, and of whom he writeth, that he would have all the effects of the Colds spring of King-horn to proceed from Tinn, &cc. So it is very probable, that that Gentleman, hath written something concerning that, or some other

fpring.

And seing there are very many rare and admirable springs, in several places of this Kingdom, fir distant from one another, concerning which now hath, as yet, put pen to paper, such as live near to any one of them, would do well to attempt the discovering of their natures and virtues, and then publish them for the good of others; by the doing of which, they would purchase unto themselves surther access into natures Cabin, where they would find greater discoveries of her manifold and great mysteries, with the knowledge of which, Providence hath decreed to inrich none, but the diligent searchers after them.

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# MONSTRUM

#### CATHANESIENSE:

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A drscription of a monstrous Child, born and living in Caithness.



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N the Sheriffdome of Cairbnels, at the Church of Lathron, there is a child(named Donald Sutherland) who upon the feventh day of May, 1663. was eighteen months and fourteen dayes

old; yet as tall as any ordinary child of three years old; in describing of whom, we shall inform you of these following particulars.

1. He is fo big, that a ftring of three quarters in length (wanting one inch) will only furround him at the middle, when all his cloaths are off.

2. His Head, Arms and Legs, are fo futable to his body, that he may be called the true pourtraicture of Bacebus; because most like unto him, as he is ordinarily pourtrayed. 3.

3. He is of a moRfair and ruddy complexio blov having a comely countenance and pleasant skin. den

4. Yet it is to be feared, that he shall never he sinstrumental, in producing another like to him with self; nature having decreed him an Ennuch from the womb: For his Scrotum is empty, and support fashioned, that to the touch (without accurate in the spection) it would argue him to be an Herma This phrodite. Moreover, his Tard is destitute of and Glans; and the Praputium is attached to the put extremity, or entry to the Urachus, on al the sides.

5. He hath fixteen Teeth (eight above as eight below) most orderly and decently set; yet h mo is most unwilling to eat any bread, but loveth only of

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foft meats.

6. His appetite to meat is so admirable, the upon the forementioned day, when he had eath to the admiration of all who were by him, en half an hour was expired, and dinner being prepared for us who were newly lighted from of our Horses, he did eat three hard boyled Eggs, and six or seven ounces of new Cheese, and then would have eaten some boyled Fishes, if we had not restrained him.

7. There is upon him such a burden of Beef, that, standing, he resembleth a drunken man, whose head is giddy: so that he can hardly walk, unless he be led by the hand: But he will go very fast upon his hands and seet together. Moreover, when he essayeth to rise from off the ground, he bloweth.

xio bloweth, and maketh a noise, as one having a bur-

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in. den upon him. er b. 8. His body is adorned (or rather deformed) him with many lirks, by reason of the great quantity from of flesh. He hath two links in his Neck, three d apon every fide, four upon every Arm, betwixt in the Arm-pits and Thumbs; two upon each me Thigh, betwixt the lirk of the Link and the Knee; of and those were so deep, that a sixpence being the put into the uppermost, it did abscond or cover athe half of it. He hath alfo a lirk beneath every Knee, and a little above his Ancles.

and 9. His wrefts (immediatly above the links) are more than feven inches in compass; and the brans

of his Legs are three inches bigger.

10. His excrements are futable to his age, but he not to his cating : so excellent is the digestive faculty of his flomach, and the attractive of his ter latteons veffels, that they permit nothing to be ere eliminat by the expultrix faculty, which can cede reinto aliment. The reason of this may, probably, of be the superlative vigor of the ferment of the 200 flomach (the great instrument in chylification) CA which is occasioned by the deficiency of that ferment, which is the great /permate-poetick agent : For the Former of all things useth mercifully to repair the natural defects of some members, by enabling others to exerce their natural offices, more extraordinarily, than naturally they use to do. As when one born blind, hath a moftexquifite fense of bearing, feeling, or a good memory ] mory, &cc. As was manifest in the person of Alexander Cushny, who lived near to the house of Drum, at the water of Dee, and being altogether blind, did (as I was informed by an Eyewitness) take assumer a house Clock of the ordinary fize, belonging to the Earl Markal of Scotland, and having mundified all the wheels thereof, did set them together again in their due order. The goodness of his digestion is, doubtless, the cause of his excessive growing.

rr. The persons who keep him did inform, that he was born of no bigger stature, than any other child useth to be; and that he began not to grow to that monstrous bigues, until he was fix months old; and that he had lost much of his stell since he was weared, which had been done

only fourteen dayes before.

12. His strength is such, that being displeased, he will easily break spoons made of Horn.

13. He is only learning to speak the High-land

language; but underftandeth much of it.

14. The weight of his body (which could not be measured, because of the want of weights) is so great, that he is thereby rendered so lazie, that a Girl of twelve or thirteen years old must carry him from place to place, his arms being about her seek; and when she ariseth with him from the ground, she must be affisted.

15. He is of fo hot a complexion, that a shirt

fufficeth him for cloathing.

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16. His Parents are poor people, of the middle stature, and somewhat inclining to the lesser fort.

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17. To conclude, he is such a person as might be a Present for a Prince, who would be carefull of dyeting him aright; which if it shall be neglected, will either occasion a short life, or make him a Buffe-bead, destitute of understanding; or else occasion his not continuing to accress unto a preter-natural bigness, as he encreaseth in years.

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### CULPEPER'S CHARACTER:

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O R,

A CHARACTER of Mr. Culpeper and his Writings.

B Y

MATTHEW MACKAILE,

Chyrurgo-Medicine.

Answer a fool according to his folly, lest he be wise in his own conceit.



Edinburgh, Printed for Robert Brown, and are to be fold at his Shop, at the Sign of the Sun, on the north-fide of the Street, over against the Cross, 1664.

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## CULPERERS CHARACTER

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A CHARA of HR of Mr. Culpeper and his Writings.

MATTHEW MACKALLE,
Chyrurgo Medicine.

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Aufwer a fool which is follo, lest he le w follo fool fool fool fool

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#### The Epistle to the Reader.

Courteous Reader,

T is too too probable, that the disciples of Mr. Culpeper, will not a little censure this attempt, and most furiously (after his manner)

challenge me, as designing, I, to condemn not only him, but all others, for publishing any thing relating to Medicine in the English tongue, and so tax me of envying the propagation of the knowledge of the Art among ft the vulgars. But fuch would know, that I ever had a great estimation of all, who have written soberly (as all have done, that ever I (aw, Mr. Culpeper excepted) and to demonstrat the truth of this, to the most incredulous of that crue, I have done the like my felf; being confident, that what ever hath been written in English, will tend to the bonour of the Art and Artists ; because improved to the best use, by persons of understanding. And when such as are destitute of this director, do any harm, by presumptuous meddling with such writings, they, at least others.

others, will be taught to make their address unto those who are the licenced and qualified professors of the Art. 2. They will, no doubt, much refent my writing against a dead Man, who is unable to answer for himfelf, and so chassenge me of baseness. Fo this I answer, that it appeareth, Mr. Culpeper, having astrologically foreseen, that some would write against him after his death, did pen that Pamphlet, entituled Culpepers Ghost, generously to excuse any that intended to do it, and to excite others who inclined not to it; and that he might not come short of them in the like work : For it is impossible to exult so much over him, after his death as he doth in that Pamphlet, and others of his writings, over others, who were gone hence before his own birth. Others will possibly condemn my noticeing and answering such scurritous, profane and unchristian expressions, as are found in his writings, and which no lober or wife man will care-for. To these I answer, that though it be impossible, that he by being answered according to his folly, ean be rendered capable of being impeded from becoming wife in his own conceit, yet fuch as survive him, and are daily, in his name,

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It ought to be the lamentation of all, who have any knowledge of the mysterious operations of fagacious Nature, that there are fo few who make it their study, to discover more of her my steries; and that such as have made some progress in this work, are so sparing in communicating their knowledge unto others, especially in this age, wherein there are fo many, who (as Mr. Culpeper ever did) offer nothing to the most delicat pallats, but crambe recocta, that is ov'r-nights Keal, It is most probable, that if Mr. Culpeper had been lo far favoured by the heavenly powers, as to have been made the first discoverer of the circulation of the blood (as was the most learned and famous Dr. Harvey) he would have made Aurum Potabile of it, that is, written of it to no purpole. I am confident; that the learned Dr. Thomas Willis, considering the most laudable practices of Dr. Harvey, in writing de Generatione Animalium, & Circulatione fanguinis; and of Dr. Glifson in writing de Rachitide; and that there are too many books already in the world, written E X Culpepen

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writen concerning all subjects, as they are already known, did defer to employ the Pres, untill he had prepared something, which would (as all intelligent persons will acknowledge) merit no small acceptation (viz. his Diatribæ duæ Medico-Philosophicæ, de fermentatione & febribus, and his differtatio epistolica de urinis, which do demonfirst, that he is one, who maketh it his great fludy ingeniously to discover, and candidely to communicat the knowledge of the mysteries of Art and Nature) because, a vulgari sententia, tanquam via maxime trita paulisper recedens, & minus calcato infistens tramiti, as he writeth in his Preface, to his Diatriba de febribus. But leaft this Epistle should become disproportional to that, to which it is prefixed, I will fum up all that I have to fay, in this request, that you would put a favourable construction upon this attempt, in doing of which, you shall obliege,

are tro-morns books character on the world

Your cordial Well-wisher,

M. M. Jahon

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# CHARACTER:

A CHARACTER of Mr. Culpeper and his Writings.

T was by some reported of Cate, that he never spake a word of which he had sawfa so repent; and there are (no doubt) not a few, who will say little less concerning what Mr. Calpeper

hath wrote. But such as believe what Solowon said (Prov. 10. 19. In the multitude of words there wanteth not son) will easily be convinced, that he who made so many motions, in so many volumes which he wrote, could not but make some trippings. If Bishop Latimer was more cautions of what he said, before his examiners, when he heard the pen of another writing behind the hangings (because literascripta manet, and nessit vex mills reverti) how much more cautions should Mr. Culpeper have been, in writing with his own hand, and thereafter publishing in print, such things as were most reprehendible, by any sober K. 4

Culpepers Character.

man, as you will annon be convinced. I will first mention such of his expecisions as are most derogatory to the glory of God, and prejudicial to his servants.

In the Epiftle to the Reader, prefixed to his book , entituled, I direttory for Mid-wives, he writerh thur; In this world the devil bath bis agents, and their actions are to keep you in darkness. Who are our jaylors ? I say Scholars; and thus I beginto prove is ; in divinity shey have given us a translation of the Bible (fuch a one as it is) all the proper names in Scripture they have given you in pure Hebren names, in an English character. Pray do fo much as read the four or five first Chapters of the first book of Chronicles, and see what in-Struction you can find there. And a little afser he writerh of the Scripture thus, When you want knowledge, you know whether to go for it; not to an idle Prieft, but to one that will not appraid you far your labour. Besides all this whale fentences in Scripture, are fo translated, that dewoold make a man fick to feethern --- Had not the Priefts formerly abconded the mysteries of the truth from us, Sermons would have been cryed about the Breets for three halfpence a dozen.

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By these expressions you may know, how the pulse of his foul did beat at the writing of them; For Solomon hath faid Prov. 21. 23. Who fo keepeth his tongue, keepeth his fout. Surely then, when the tongue raileth against God himfelf and his fervants, it arguerb the foul (at that time) to be in a lamentable effate, by reason of most deprayed principles. Without transgressing against the rules of charity, Mr. (wipeper (no doubt) may be called the most audacious Momus of this our age, wherein he lived, in daring to vilifie that most exact translation of the holy Scriptures in fuch a parenthized expression; and also to speak the worst of evils concerning Dignities, as you fhall hear hereafter. I am confident, that if he had been more diligent in fearthing the Scriptures (like the Bereans, Act. 17. 11. ) for edification, he would have found more instruction from these Chapters in the first book of Chronicles; for by comparing them and the like places, with Matth. I. and Luke, 2, he might (according to the judgment of all Divines) have understood, that they were penned by the Holy Ghoft, chiefly for this end, that it might appear to the Church in after-ages, that Jofus Christ our Saviour was lineally descended of Abraham and David; and not only that we might be inftracted by the etymological interpretations of the names; die the Spirit of God would have fet down the interpretations of them all in the Text, as He did (for reasons known to Himself) of many in several

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fert.

Ichabod, 1 Sam. 4. 21. Where is the glory? Fedidiah, 2 Sam. 12. 24, 25. Beloved of the Lard.

Jerubbaal, Judg. 6. 32. Let Baal avenge. Joseph, Gen. 30. 24. Increasing. Machar, Gen. 30.18. An bire.

Ifemail, Gen. 16. 11. God hath beard. Ifrael, Gen 32. 28. A provailing with God,

Levi, Gen. 29. 36 Joyned. do vol vil do Loammi, Hol. 1. 9. Not my people.

Lornhamab, Hof. t. 6. Net baving obtained mercy.

Melchizedeck, Gen. 14. 18. and High. 7. 2. King of righteonfuefs and peace. It will st Mofes, Exod. 2. 10. Drawn out.

Naphtali, Gen. 30. 8. Wroftling ?

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Seth, Gen 24- 25.

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Simeen, Gen. 29. 33. Hearing. Zebulun, Gen. 30. 20. Dwelling.

Moreover, the pious and learned Interpreters, being most zealous to advance the knowledge of God and of the Scriptures, did, upon the margents of many Bibles, set down the interpretations of

the most part of the proper names.

I shall only add, that Mr. Calpeper, his cenfure of those Chapters in the Chromotes, savoureth of no less presumptuous impiety, than, first, the taxing of Almighty God, His Wisdom and Will, in not authorizing the holy Pen-men of the Scriptures to explicat all the proper names, as they did the most considerable. Secondly, that he would have had the Interpreters to have added unto the Scriptures, the explications of those proper names, which are not explicat in the original text; by doing of which, they should have made themselves the object of that dreadfull threatning, Revol. 22, 18.

As for that expression of his, Whole sentences in Scripture are so translated, that it would make a man sick to see them, I shall only say this of it, that no ingenuous and rational man, would have so impudently afferted so great a paradox and untruth, without instancing some particular sentence for proving of his affertion. It is one of Mr. Culpeper, his own physical sentences, that physick without a reason, is like a pudding without fat; the like whereof may very well be said of this his

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extravagant affertion, destitute of probation.

It is admirable, that Mr. Calpeper, who (in his Epiftle prefixed to his Translation of the London Difpenfatory) affumeth unto himfelf, fellowfing with Christ and his Apostles, and likeness to Ged, did not take the pains to translate, or correct some of those Scriptures which he reprehended. But his furviving wife (in her Epiftle prefixed to his Treatife of Aurum potabile) feemeth to give a fufficient reason for this omission, in these words, My busband left seventy nine books, of his own making or translating in my bands ---- Allo my Husband left feventeen books, compleatly perfected, in the bands of Mr. Cole, for which he payed my Husband in his life-time. Let the fober and judicious Reader judge of the probability of this, confidering that he had not above nine years for this work and his aftrological studies also (for he began not to write till the year, 1648. or 1649 and he died, 1654. or 1655.) and whether or not many books have been printed in his name, fince his death, which were not written some years after the same; particularly that book, entituled, Arts Master-piece; or the beautifying part of physick; whereby all defects of nature in both fexes are amended, age renewed, youth continued, and all imperfections fairly remedied --- Never before extant, though long fince promised by Mr. Nic. Culpeper, but now publifted by B. T. Doctor in phy fick. London , printed, 1660. Concerning this book I have thefe fix things to acquaint you with 1. That

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r. That it is most probable Mr. Culpeper never wrote it, else his Relist had published it, as she hash done other books, since his death.

2. The publisher of it in the Title-page, putterh B. T. for his name, but at the end of his Epistle to all truly virtuous Ladies, he setteth L.D. which discrepancy, resected not a little upon the Publisher, as well as upon the Printer.

3. In the Title page he affirmeth thele Experiments to be so far discovered, that every man may be his own Apothecary; but it is most probable, that the Penner of them, was as ignorant of the knowledge of that ingenious art, as a Mole is destitute of the visible faculty; for, pag. 71- he ordereth the making of an Oyntment, without

Oyl, or any unctuous liquid body.

4. Many (if not the most part) of the prescriptions contain, 1. either such things as are most costly, as that Oyntmers (pag. 70. to cause a beard) for the making of which he prescribeth three ounces of Musk. 2. Or such things as cannot easily be gotten, as; pag. 71. the blood of a Batt, for making of an Oyntment, for hindering the growth of bair. And, pag. 73. the turd of a Mola, for making of another Oyntment, to the same purpose. And, pag. 77. the blood of a Tortoise, for making an Oyntment to take away the bair. 3. Or else such things as are ridiculous; because not seconded with reason. As, pag. 79. the Gall of a white Ox, for making of a siniment to whiten the bair; as if the Gall of a red or black

Ox. would not ferve as well. And, pag. 100 Grafs plantane, the rine taken off, and Washt nine dayes in fpring Water , for making an syntment, for leprous faces. Those nine dayes of purification, might be fufficient for bleetching both the herb and the face into other colours.

5. Frustra fit per plura, quod fieri potest per panciora: That is, there might be, from amongs the Tantological farrage of those prescriptions, some few composed of the choicest simples, for every feveral diftemper there mentioned, which would prove more ulefull, than any of these

which are fo confusedly fer down-

6. The book is no wayes answerable to its promising Title-page; which may give just ground to fuspect, that the effects of those remedies will be as diforoportionable to the expence that men mult

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be at in trying of the experiments.

It is a most infallible token of ignorance, chesting and foolish oftentation, for a man to prefix a most flourishing Title-page to his book which doch scarcely deserve any at all; such as is that book, entituled: A discovery of subterraneal treas fure, viz, of all manner of Mines and Minerals, from the Gold to the Coal; with plain directions and rules for the finding of them, in all Kingdoms and Countries. And allo the art of melting, refining and esaying of them is plainly declared, fo that every man that is indifferently capacion, may with |mall charge, prefently try the value of Inch eares, a fell be found, either by rule or by accident.

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secretains. As niso a way to sry what colour any berry, leaf, slower, stalk, root, fruit, seed, bark, or wood will give; wish a perfett way to make colours thus they shall not stain, not fade like ordinary colours. London, Printed, 1653, and are to be fold by Humphrey Mosley at the Princes Armes in St. Pauls Church-yard.

This book confifteth of nine sheets only, and is so miserably desective in performing any thing promised in the Tirle-page, that the world can hardly produce another like it; so that the old saying, Partirium montes (which contain those Mines and Minerals) may be the motto of its Frontsspices, and Nascitur ridiculus mus, its

Post- (cript. Before I pals from this purpofe, I will give you a tafte of Mr. Culprper, his found divinity and abilities, in applying and interpreting of some paffages of the holy Scriptures. As, 1. in his Treatife of Ammm Potabile, pag. 3. he writeth thus, Truly we confidering how mysteriously God by his Spirit hatb penned the Scripture to the fons of men, that wone bat bis own chofen ones under frand the mysteries of it, have ceased to question the integrity of Philosophers, in penning such ridles (meaning their writings concerning the Philo( phers from, Aurum potabile, &t.) that prophesie Ifa. 6.9, to. which is fo often repeated in the New Testament, mußt be verified; Go unto this people and fuy: bearing you hall bear, but not understand, and feeing you shall fee, but not perceive,

coive, &c. Let the judicious Readers, who have any knowledge of the Scriptures, consider, whether or not that Prophetic was penned only, or at all, in relation to the writings of these Philosophers. (as his words do clearly import) especially, seing the Apolitic Paul applyech them more (yea only) spiritually, Att. 28, 25, 26, 27.

2. Page 9. of the fame Book, from thefe words, (Gen. 3. 22, 23, 24.) The Lond turned man ant of the garden, left be fould eat of the tree of life, and live for ever; and be placed in the garden cherubims, and a flaming (word, which turneth every way to keep the tree of life; he inferreth as very probable, these conclusions: I. That the place of the garden is still probably remaining (and fure he meaneth, in it's primitive integrity) because Angels had been but a feeble guard, if they could not have keeped out a listle water, (viza at the flood of Neab, when all the high fills that were under heaven, were covered fifteen cubits upward, Gen. 7. 19, 20. 2. That the bodies of Enoch and Elias may be there. It is admirable that he would not give Mofes a place amongst them, (possibly because, being the only chief Magiftrat amongst the Ifractites, he looked too like to a King ) but it is more probable, that if the garden of Eden was the Comitery of Enorh and Elias, that there also God buried Mofes, and that the valley in the land of Moab, over against Bethe pear, Where God buried Moses (Deur 34.6.) Was the garden. But, it becometh no man to fludy wildom

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wildom in the matters of God, above what is written : and far less did it befeem Mr. Culpeper to doubt(if not contradict)tholeScriptures, 2 King 2. 11. at the end. And Elijah went up by a whirlewindinto heaven. Heb. 11.5. Enoch was trans Rated, that be foodld not fee death.

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3. Page 11. He writeth thus, We read, Gen-5.3. that Adam begat a fon in his own likenefs : that is, as we understand; not of pure and temperat Elements, of which be was created, but of corrupted and mixed Elements (as if at his first creation of temperat Elements, they had not been mixed) and therefore mortal. This rare Divine; alloweth no spiritual meaning unto those words. It is more probable, than any of these his opinions, that an Affembly of the most ignorant Divines (in the English Commonwealth, wherein he lived, & which licenced his impudent Pento fcrible) would have rejected him, as infufficient, for tranflating, or interpreting of the Scriptures unto them.

In the next place, take notice of his treafonable and scandalous expressions, whereby he spoke evil of Dignities, mocking at their afflictions, in the day of their calamity; and foin a superlative manner transgressing that command, Obadiah 13. I shall pass by with filence, those of them, with which he larded his Almanacks (when the Sunlike glory of Monarchy was eclipfed by the opacous Republican Parliament, whose inconsiderable and base constituent atoms, had no splendor; but what was communicat unto them at first, by che

the King, the fountain of all honour) and defire you only to notice futh of them, as were his most christian and charitable meditations, in relation to the fifth Commandment, when he was bidding farewell to the world; viz. when he was penning that Pamphlet, which he entituled Culpepors Ghost; In the second and twelfth pages whereof, he writeth such unchristian, treasonable and scandalous expressions, as cannot be mentioned, without committing the like crimes; and therefore I must forbear to insert them here, referring you to his own writings; and in these sew words only give you my verdict of them.

Notwithstanding that Solomon (the wischt of men) who was inspired by the Spirit of God, did affirm, Prov. 28.2. For the transgression of a land, many are the Princes the roof; and, chap. 30.21. When a servant reigneth, the earth is disquieted, and cannot bear it; yet Mr. Culpsper was so foolish and hasty in his words, (Prov. 29. 20.) as to mock at the sather of the state (Prov. 30.17.) and not be assaid of the judgment there threatned.

The Supream Magistrat of the Universe, having put an happy end unto the long and Cimmerian dark night of Anarchy, wherein such fiery meteors did appear, in our Brittish Horizon, but were not able to change the coats (and far less the hearts) of one truly loyal person, I shall not determine their altitude in the region of Rebellion, but only offer unto you some of the sanctuaries measuring Reeds, by which you may do it your selvs.

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Titus, 2. 1, 2. Par them in mind to be fubiect to principalities and powers, and to obey Magi-Arats. &c.

Exodus, 22. 28. Acts, 23. 5. Thon Calt not

Ipeak evis of the Ruter of thy people.

Ecclefiaftes, 10. 20. [arfe not the King, no not in thy thought, &cc.

2 Peter, 2.9, 10, 11, 12, 13. 1 Peter, 3:10.

lames, 3. to ver. 11.

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I shall conclude this purpose, with those three fentences of Gods Word, which a good Poer might convert into a most pertinent Epituph upon Mr. Culpeper.

Prov. 21. 24. Prond and banghty (corner is

his name, who dealesh in prond wrath.

Pov. 10.31. But the froward tongue Challbe cut off. Pro. 12.19 But a lying tongue is but for a moments

Take now some of his most christian and charitable complements, which he puffed upon the Physicians of the Colledge of London; of whom many, for their fingular abilities, and diligence in their business, were bonoured to stand before the King and Princes of the Band. In the lecond pige of his Epifile to the Midwives, of England he calleth the Phyliceans a compamy of lazy Doltors, most of whose coverousness outweighs their wits, as much as a Mil-ftone outweighs a feather.

And in the Epiftle to the Reader of that fame book, who are they that cry out against Empyricks ? pyricks? who? The Colledge of Physicians' And why do they so? they kill men for wan of judgment; and who is the cause of this? themselves for soil : for if they taught men the true rules of physick, is any man so madd as to pradice false ones! I may now joyn them both together, like Simcon and Levi, brethren in evil.

I will not instance any thing more to this purpose (though there might be found as much of this fort of stuff in his writings, as many sheets would not be able to contain) only read his Tran-Ragion of the London Difpenfatory, where you will find most bitter railings against the Colledge; and in the close of his Epiftle to the Reader, be taketh the beaven and all the powers thereof to record, that he never received the least prejudice from any of them, that would have extracted revenge from a melancholy breaft. It appeareth that Mr. Culpeper would have wiped off the afperfion of batred towards the Colledge, by thefe last words; but in fo doing he resembleth one, who with inky hands would do away a black fpot from off his own face, and thereby he rendereth himfelf a most proper object of the centures of all ingenuously-minded persons, who ever were, and will be, most ready to acknowledge with honour and love, the virtues of their very enemies, and detest that superlative baseness of envying and detracting from the deserved elogies of such as never did them wrong. Cefar

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Cefar caused re-edifie the demolished statues of Pompey, though his enemy, and gave this most generous reason for it, Least the honour of for brave a Commander Could have bled and tanguifbed under mine eye. Doubtless the ground of this his implacable and unparallelable hatred, was only the merit of those Asculapian worthies, whose deserved estimation should not have been envyed; especially, seing the Almighey God, did inhibit the very envying of evil men, Prov. 24. 1, 19. and the Prophet David did reprehend himfelf for being envious at the prosperity of the micked, Pl. 73. 3. The most charitable censure which can be put upon Mr. (ulpeper for those expessions, is that of Solomons, Prov. 11. 12. He that is woid of wisdom, despiset his neighbour, but a man of understanding boldeth his peace.

knowledge or estimation of the most excellent Art, Chymistrie. Surely the vulgars will cenfure me, as most ridiculously uncharitable, in doubting of either; seing he hath written (as they say) a most learned Treatise of Aurum Potabile, and Chymical Institutions, in his Shoool of physick, printed, anno. 1659. For determining of this controversie, I will only propose some Querees, according to which the judicious Reader may

conclude as he pleafeth.

Quer. 1. Is it probable, that if Mr. Culpeper had understood any thing of the art called (hymie, in anno. 1648. or 1649. (at which time he be-

gan to write) would be not have manifelted some what of it in his Tras slation of the London Dispensarry, when he came to the Chymical prescriptions (seing he did censure many of their other prescriptions, as informal, &c.) and not have translated them verbatim, without any anima-advertions; neither, at the beginning (when writing of the Oyl of Worm-wood) have given this advice? Your best way to learn to Still Chymical Oyls, it to learn at an Abedymiss: for I respected that the greatest part of the Collecte had no more skill in Chymistrie, than I have in building houses.

Quer, 2. If he had understood this ingenious and ufefull are, would be bave, in the close of his dayes (when he penned his Ghoft) given it fuch a flender and detracting commendatory testimory, as he did page fifth and fixth in these words. And as for Chymistric, of which I had a mighty high opinion in my life-time, I must confess, though I still acknowledge the Art to be very ingenious and alefull to fearch into the mysteries of nature, and the best key of natural Philosophy, and that by belp thereof, some very usefull medicaments are daily made, as my Aurum Potabile, of which I left a Treatife, yet I do do now much doubt, whether a general supply of medicaments, for all cafes obvious in prattice can by (bymiftrie be afforded, bester ibanthe often approved, and by experience confirmed, Galeni-GAL

cal and a Hippocratical remedies? It is too too evident, that if he had not left that Treatile of Aurum Potabile (which is the only ufefull medieament which he acknowledgeth to be made by Chymistrie) to have been published in his own name, the most excellent Arr, would not have been to favourably mentioned.

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If Mr. Cutpeper had been inftructed in the principles of this art, as would have beseemed one, in whose name Chymical Institutions and a Treatife of Anrum Potabile, were to be published, would be have, in those Inflications, begun with, and (for the most part) proceeded in the practical part of the art, and that only according as it had been written of by others, above twenty times, before he faw the light of the Sun? Surely, when he penned those Inflications, he did forget, that the learned Sennertus, and all others who ever wrote Institutions to any Art, did confine themselves unto the theoretical part, describing only the necessary pracognita, before the practical should be attempted.

I will here give you a tafte of his great skill in this Art, by mentioning some of his expressions in the ninth Chapter of those Institutions, where writing of the Quinte Sence of every simple mater; he detcribeth it thu, Quinteffence is the fifib part of every thing having form and substance, and a most subtile spirit drawn from its body, &c. And a little after, Quinte fence---- folely by its felf, bath none of the four qualities in it, viz-

watry, airy, firy or earthly, which could be difcerned or discovered , by the judicious inquisition of the most skilfull Philosophers .- There. fore, for a conclusion observe, that it is neither hot nor cold, nor moist nor dry, but is a thing of a temperate nature, exceeding all the Elements which are under heaven. Then he affirmeth, that it is chiefly to be under frood of Wine, the spirit whereof he calleth the Quinteffence, and the weth the vulgar manner of destilling it, chap. 10 and biddeth luse the wellels, that the animal and vegetable Virtue may not exhale out of the Wine. Is it not admirable, that Mr. Culpeper, (upon whose Diet, Schooling and being at the University of Cambridge, four hundred pounds were fpent, us is affirmed by that most adulatory Penner of his life, prefixed to his School of Phyfick, should affirm such paradoxes, and never give one reason ( wise or soolish) for proving of any of them. As, 1. That any part of a Body, composed of the four Pbysical Elements, is not composed of the same principles, and doth not partake of she same qualities with that Body, of which it was a confituent part. If he had proved it by fore demonstrations, he had truly deserved the title

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title of Magnus Appelle, to which he was bufily sfpiring in this age. 2. That the fpirit of Wine, Aqua vita, &c. are not at all bot. 3. That Wine containeth animal virtue. These two being so ridiculous, need no other anima-advertions, than what a critical Divine faid once of anothers writeings, vidi & rifi. Those Institutions, which contain such doctrine, so methodically disposed. do challenge to the Author of them, the very fame testimony, which Mr. Culpeper (though undefervedly) gave to the most part of the Colledge of Physicians at London, viz. that shey had no more skill in Chymiftrie, than Mr. Culpeper had in building houses; especially seing he is such a fool, as to contradict what he wrote formerly, in his Key to Galens method of physick, Sect. 1. when writing of Medicines temperat, thus ---- It is impossible that any medicine can be temperat.

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Quer. 4. If Mr. Culpeper had been instructed in the principles of this worthy Art, would he not have discovered some of that sort of knowledge, in some of his other writings? I do declare, that (according to my best remembrance) I never read any thing in any of his writings concerning this Art, saving what bath been just now mentioned, and some sew lines in his Epistle to the Reader, prefixed to his Directory for Midmives, wherein he, who pretended to be the greatest and most z calous promoter of the knowledge of natural and medicinal things, for the good of his Country (as may appear from those ridiculous words in his

Ghost, pag. 13. I dare fay I have been a greater teacher of phylick, and have had in. comparably more disciples in that Art, than all the fellows of Amen Colledge, fince old King Hary gave them their Charter doth scoff at, and vilipend natures key, and rail against that learned and skilfull operator to the Colledge, Mr. William Fobnfon, demonstrating, that his great zeal was void of the knowledge of nature, and that his chief defigns were, r. the acquiring of money from the Printers, for buying of Beer and Tobacco; for proving of which, take notice of these words, which the Authors of the Preface, prefixed to the compleat Midwives practice enlarged, in their Preface write thus --- Its almost a miracle to us, that Mr. Culpeper, a man whom we otherwayes respect, should descend so low, as to borrow his imperfect Treatife from thole wretched volumnes, some of which are before mentioned; and we must deal faithfully with you, that that [mall piece of his, entituled, the Directory for Midwives, is the most desperathy deficient of them all, except he writ it for necessity, he could certainly have never been so sinfull to have exposed it to light. 2. The

2. The crecting of the Trophees of his own fame, upon the ruines of others, whom he was fill decrying. His words are thefe, when she Temple of Diana was on fire, ent jumps the image that fell down from Jupiter, from Ephelus to England at one leap, whom all the world adore (some few children of my mother Nature excepted) and filver sorines must be made for her still, Demetrius the Silver-smith having taken him a shop in Amen-Corner.

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The judicious Reader of these things, will surely think himself obligged to ascribe the perning of that Treasise of Aurum potabile, only to Dr. Freeman, whom Mr. Suspepers Relick (in her Episte prefixed to the said Treasise) acknowledged to have studied, and arrained to the

perfection of it , joyntly with her Husband.

Be pleased to take a view of some things in his book, entituled, Tho English Physician, &c. and first of its Tisle-page, wherein are these three things reprehendible; 1. He calleth it a complease (fearing least others would not) Method of physick; whereas it containeth only a consused (faving that it is alphabetically almost disposed) description of English Herbs, and their virtues, without any physical precepts, either methodically or consused of physick, nothing can be understood, but a methodical description of the Art of Physick, containing the

the causes, signs and cures of diseases, such as is Philip Barrough, his method of physick. 2. He promiseth, thereby to teach a man to preserve his body in health, or cure himself, being sick, with threepence charge, with such things only as grown England. And yet in the description of the first Herb, Amara dulcis and its virtues (and through the whole book almost) he prescribeth three pynts of white Wine, for to boyl the wood and leaves into. Surely the most favourable construction which can be put upon this discrepancy, is, that to cause the book sell well, it behooved to have that blazing and dazling promise upon its Frontispiece. But,

Vine vendibili non opus eft Hedera,

That is,

Weeds not an Ivy for its Banner.

Moreover, it is evident from these words, that Mr. Cuspeper thought, that this book of his, would be sufficient to inform any man concerning the nature and cure of his disease, (though it containeth nothing of the principles of Medicine; at least, that any man being informed of the natures of Remedies, is instantly enabled to cure a disease. Was not this a most speedy and effectual coarse which he did undertake, for multiplying and patronizing

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patronizing the number of ignorant Doctors (who usure the title, and bave not fo much Lasin as would buy a loaf to a Dog) and Empiricks of both Sexes, who are not able to distinguish one disease from another. It will not be amis to infert some stories, concerning some such persons, as first.

One who pretended to have some skill in physick, used to give these five rules, as the most excellent, for preserving of health. 1. Fear God. Purge melancholy. 3. Live temperatly. 4. Extortion not your stomach. 5. Keep a good dyer.

Secondly, There is a Doctrix, concerning whom I will relate unto you these most certain stories.

to bring home to her fome Oyls. When he defired to know what kinds of Oyls, there being Oyls of different natures and operations, the replyed, Any Oyls, because I intend to try conclusions.

2. A fickly Rustick came unto her, complaining of a pain in his neck, and betwixt his shoulders. She affirmed his discase to be the Ripples in his neck, and essayed to cure him thus; every morning he got a good draught of warm Ale, with some Ginger; and so soon as he had drunk that, she put him into the Barn to thresh a Bartey stack of her own. Thus continued he under physick till she stack was threshed.

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A Ruffick woman came unto her, to gether odvice concerning the Gravell, wherewith the was much troubled. The Dostrin gave her thin advice, for causing the stone fall down into the neck of the bladder, Ton must said touring forwards with your two bands, upon the arms of a great chair, setting your feet far assuder; then let your Husband take a broad shovel, and give you four or five good clanks or strokes upon the buttocks with it. In my own audience she confessed this story to be true.

unto feveral confiderable perfons.

4. A valerudinary Ruftick came unto her, and defired fome things for his health; to whom fafeer some discourse, and stedfast looking into his countenance) the gave this answer, truly friend you will die. The person then (with a more melancholy aspect demanded kow for did know that? But the declined to give him a reason for ber prognostick, affirming, that it was not for him to know that : For (faid the) it is fafficient that I know it. At length, being further preffed, the told him, that he had arank a foul or unclean drink. The Rustick answered, Misteis, you know, that we who are country people, drink nothing but (mall drink, or clean water - No no (faid the) but you have drunk a drink into which the Moon bath Shined. Miltris (faid he) you know we use to go to the Well at night, and drink water though the Moon be flining. But (fai

(faid the) the Moon bath flined into the end wherein your drink bach been. Notwithstanding of this difcourle, the fimple fellow condefcended to take from her fome potion or other. The reason of this ridiculous expression concerning the moon, is none other than this; the having (tomy certain knowledge) Mr. Culpepers English Phylician or Herbal, bath read in it, that fome herbs are berbs of the Moon, others herbs of the Sun, and other's berbs of Mars, &c. and do canfe such and such diseases, and cure others; and having fome rude and ignorant conceptions, concerning fuch things, did utter that ridiculous prognoftick and reason. It is not much to be admired, that a filly woman had fuch shallow imaginations. feing the most learned and famous Mr. Culpeper was fo prefumptuous, as to enflave all vegetables to a necessary and unavoidable dependence, upon the influences of the Stars, which were not created untill the fourth day of the creation, which was the day after the creation of vege-The confideration of which, made the trnly most learned and pious Dr. Thomas Fuller (in his 18. Scripture observation, in his book. intituled, Good thoughts in bad times) refolve, bereafter to admire God more, and fear Aftron logers lefs.

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It is most certain, that there are many ignocant Empiricks, who (by such books as Mr. Culpepers English Physician is) know as many media caments and their virtues, as the ablest of Physician cians; and yet they are, and will still be, most unsuccessefull in their enterprizes: because ignorant how to make use of them in due season. The consideration of this made famous Hippowrates begin his Aphorismes thus, Vita brevia, Ars longa, occasio volucris, experientia periculos, judicium difficile, &c. id est secundum Heurusum, Nemo presentem agnoscit occasionem, nisible qui judicio, & experientia excellis. Such ignorant sellows, have often reason either to bewail their blidd precipitancy, or to ruminat upon that old Proverb,

#### Fronte capillata, post est occasio calva.

An able Physician, considering the presumptuousness of such persons, said well, Musta dantur Medicamenta, nulla remedia; nam solus medicus prudens & sapiens, ex medicamentis, remedia facit. Medicamenti etenim anima, est oscasso ipsum exhibendi. That is, there be many Medicaments, but no Remedies: for only the prudent and wise Physician maketh Remedies of Medicaments: for the soul of a Medicament, is the season of applying it.

The Christian Readers of Mr. Culpepers writings, which contain such excellent stuff, as you have here before mentioned, may consider whether or not, the Publishers, Re-printers and

Sellers

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Sellers of his writings (or other mens in his name) have not reason to take to themselves that most excellent advice of Mr. Culpepers (being the last words of his Ghoft, which was the last of his writings) which he left in Legacy to the Printer of the book, entituled, Cutpepers laft Legacy, without his own knowledge, in these words, If he leave not off such tricks, I would advise him to pull down the fign of the Angel, and hang up the Devil, or the fign of his Clovenfoot, in stead thereof, that people may guess by the fign, what commodities he deals in, and know where to have them, without seeking any further about the Town. For when they see the father of lies and impostors, or his mitred foot hang'd up, they may be sure that love lies and sophisticated forgeries (as too many do) where to have their turn (erved.

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3. In the Title-page alto, he promifeth to show the time of gathering all berbs, both vulgarly and astrologically; but when he cometh to treat of gathering roots (pag. 382. and 383) he only controverteth alittle concerning descending of the sap to the root in Autumn, and its ascending in the Spring, and laughs at it as a tradition. At length, he determine the controverse thus, The truth is, when the Sun declines from the Tro-

pick of Cancer, the sap begins to congeal both in root and branch; when it touchesh the Tropick of Capricorn, and ascendeth to us ward it begins to wax thin again, and by degrees, as it congealed. This is an affertion of Mr. Culpepers, which he wrote, after that he had consulted (as he writeth in his Epiftle to the Reader) with his two brothers, Dr. Reason and Dr. Experience, and that after his veyage taken to visit his mother Nature. Likewife after his afferting, that neither Gerard nor Perkinton, nor any that ever wrote in the like nature, gave over one wife reason for what they wrote, but trained up young novices in the school of Tradition, and did teach them, just as a Parret is taught to speak.

From this affertion of Mr. Culpepers, it is most evident, that he hath been of opinion, 1. that the natural withering of herbs in autumn, whilst they are not cut down, proceeds only from the congealing of their sap: because of the Suns declination from the Tropick of Cancer. The affertion he learned from Dr. Tradition, and his pretended Dr. Reason inferred from it this opinion; to which I oppose this, as favouring of more natural reason, and less reasonless tradition. The root of the herb, having in the Summerstime, furnished the stems, &c. with vegetative spirits, which it conveyeth by the aqueous humidity,

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thefe spirits being distributed amongst the leaves, flowers and feeds, provident nature appointerh the evaporation or exhalation of the fame, by the Suns hear, as an enemy to their confervation, and a great accelerator of their putrefaction. 2. Ho hath thought, that the fap of the roots of herbs, is not fo thin in the middle of winter (when the earth, about them, is most successent or wet) as in the middle of fummer, when the ground is not half so wer. But if he had required the judgment of Dr. Reafon concerning this affair, he would have told him, that the vegetative foul, remaining in the root, doth, in the winter time, attract more fap to it, than it had at the end of autumn, for nourithing and strengthening it, the better to relift the brumal cold, which would be ready to kill it, after the lofs of fo many spirits, as it hath communicated unto the feeds, and other parts, which it fent forth in the Summer and Autumn, and after the great cold is gone, it beginneth to operat upon that fap, fending it forth into new leaves, ftems, &c. which it alimenterir afterwards with new fap, which it attracteth from the ambient earth.

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Hence is appeareth, that the most convenient feason for collecting of roots, is the Spring-time, immediatly before they put forth new leaves or stems. And I am considert, that Mr. Culpoper never eated Parsneeps, but in winter, though he did it not for this reason. Let the judicious Reader consider, if this be not a very clear hint-

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ing at the reason of that affertion of Mr. Culpepers (chap. I. of leaves of herbs or trees) which he (who wrote as before, in the Epifile) doth most impudently fet down, without any reason, subjoyned unto it, in these words. The leaves of such berbs as run up to seed, are not fo good when they are in flower as before, some few excepted, the leaves of mbich are feldom or never afed. But here Mr. Culpeper feemeth to answer for fuch omissions, in that learned and compleat Method of Phylick, by thefe words, concerning the book, in his Epiftle to the Reader; In mine, if you view it with the eye of reason, you shall see a reason for every thing that is written. But these words, do rather pre-require more reason in the Reader, than is in the book.

In the fecond place take notice, how he commendeth this his book. You read before, that in the Title-page he calleth it A compleat method of physick; and in the Epistle to the Reader, he writteh thus; The profit and benefits arising from it, or that may accres unto a wife man from it, are many; so many, that should I sum up all the particulars, the Epiftle would be as big as the Book ; and then he reduceth all to three general heads, which no man, but he who hath the forementioned eye of reason, and can bringe but that which is not there-benn, will be able to discover. Mr. Culpeper, his sounding forth his own praifes, after this manner, and his frequent faryrical reflections upon others, doth directly grapigreis,

transgress that excellent precept, which Diony-

Officium alterius multis narrare memento, Asque aliu, cum tu benefeceris, ipse siteto.

As also the more considerable sentences of the holy Ghost, Prov. 27. 2. Let another man praise thee, and not thine own mouth, 2 Cor. 10. 18. For not be that commendeth himself is approved. If he had remembred, that the coats and garments, which Dorcas made in her lifetime, did commend her frugality most after her death (Asts, 9. 39.) he would have been more sparing in penning, and causing print such commendations of his own writings in his lifetime, and rather have reserved them for to have been enlargements, or seels and sinews to his energy like Gbost, which was printed after his death.

In the third place take notice, that though Mr. Calpeper, in his Epiftle to the Reader, did reprehend Gerard, Perkinson, &c. for never giving one wise reason for what they wrote, &c. yet all along through the book, he doth most considently take upon him to determine the degrees of heat and coldness, or driness and moissness of herbs, according as did the most fabulous writers, who were the first authors of such like traditions. Take this one instance, as the most considerable (because a part of that discourse, which in the Epistse he calleth the Key of the whole book) which savour-

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eth of most presumptuous confidence, and reasonless tradition; and it is concerning Worm-wood, of which he writeth thus, is is bot and dry in the first degree, viz. just as bot as your blood, and no hotter. Should fuch a Critick have fo peremptorily afferted, without giving any reason for it? at least, should he not have prefixed to his book a rational rule for discovering the temperaments of herbs in general, feing all others who wrote before him, concerning berbs, did affere the like, and never gave the least shadow of reason for it. Surely he had a good opportunity for the doing of this, in his Key to Galens method of phyfick, (Subjoyned to his Translation of the London Difpenfatory) feet. I. where he writeth of the semperature of Medicines in general, and where he bath a discourse, not exceeding eight lines in 8vo, neither affording two grains of instruction to the Reader.

Fourthly, let the judicious Reader consider what he hath written at large concerning Worm-wood (which discourse, he called the Key of the whole book; and in the close of it, he calleth it a Jewel, more worth than a Diamond; and asserteth, that in the words of it, lies a Key which will unlock the cabinet of Physick) for (as Mr. Culpeper wrote concerning some places of Scripture, translated into English) It would make a man sick to see it, being a discourse stuffed with variety of most ridiculous impertinencies; particularly where he saith, that where Dr. Reason dwells

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dwells not, Dr. Madness dwellesh, and Dr. Mad. nels bringath in Dr. Ignorance : Dr. Folly, Dr. Sickness and Dr. Death.

You must excuse my not meddling with any thing in his writings which is aftrological: For I acknowledge my felf not to be fufficiently acquainted with the principles of that Art, and therefore do refer him unto others. Only I will fay this, that if his Astrology in Medicinals be no better than it (and the Aftrology of others more famous than he) was in Politicks, in the time of the Commonwealth (when Monarchy was faid to be eternally exiled from Great Britain, by all the powers of the heavens) they will mif- spend their time, who will take the pains to read.

Concerning his great skill in the Pharmacopoe. tical art, which he endeavoureth to manifest in his Translation of the London Dispensatory, and Chapters subjoyned unto his English Physician, I will only fay this, that who foever shall compare those his writings, with the ingenious and learned Animadversions of Dr. John Zuelfer. upon the Augustan Dispensatory, will be soon convinced, that an Apprentice of one years standing would have written as well, if not better than he did.

Take now a demonstration of his matchless impudence; which is this, in his Translation of the London Difpensatory, when he describeth the virtues of the Vinegar of Squalls, prefixing his own name to them, he doth it, according to Gaden his words, which he had stollen, either out of

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Gaiens own works, or else from the Angustan Dispensarry. Yet notwithstanding of this, he had so much impudent confidence, as (a little after) to challenge the learned Physicians of London, for stealing the prescript of the Lockoch of Purstain, from Ansberg; and then addeth these tidiculous and scurrilous words, you shall shortly bear the Angustan Physicians come, with how and cry after the Colledge, and cry, stop theeves. Let others remember this provers, which he forgot.

## Turpe est dollori, cum culpa redarquit ipsum.

Before I conclude, I will acquaint you with this true story: An able Physician of our Nation, being demanded, by one of Mr. Culpopers disciples if he had read any of Mr. Culpopers works? answered, I thank God, I never had lo much leisure as to do it. It having been my misfortune to have some leisure, for that end, I have given you a taste only, of what I found in such of his writings, as providence did throw into my hands. And all that ever I learned from them is this, which I look upon as the Corollary of this discourse.

Mr. Culpepers writings, are only either other mens writings which he hath translated into English, or collections out of other mens works, which he hath deformed with malicious, scurrilous, detracting and railing expressions, and studied

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died to beautifie with some ridiculous, and (some-

times) impertinent jefts.

So that that fentence (which you will find in the Epistle to the Reader, prefixed to his Translasion of the London Difpenfatory) may be most pertinently applyed unto himfelf, mutatis mutandis: A Physician riding (passing) in Plush (Print) and not one grain of mit, more than was printed before he was born. By these words he doth well condemn those, who rest fatisfied with what is already discovered and known unto all, and press not forward unto new discoveries, which ought to be the only exercise of the Scholars (especially Physicians) of our age, wherein is abundance of most excellent books already published, concerning all subjects; and yet there was never a scribler in the world, which made the Prefs ruminat more, to little or no purpofe, than he did.

For a conclusion to this discourse, I will answer one great objection, wherewith I will, very probably, be troubled hereaster; which is this, since Mr. Culpeper his death, his relict, Mrs. Alice Culpeper, hath in print, by way of Epistle, renounced many books of her Husbands, printed in his life-time, one whereof, called Culpepers last Legacy, &c. she denieth to have been written by him: because is is not written according to her Husbands losty and masculine stile----and in such a solution valediction, be could not, possibly, have forget his monted respects to the Colledge some

(fome whereof we have mentioned before) to whom he did so frequently address himself in di-vers of his writings; and others of them are in Epistles subscribed by himself (viz. the English Phylician, and Directory for Midwives, which I have feen) alledged to be very falfely printed, and to contain many goofs miftakes. So that those passages, which I have before mentioned, out of his writings (and particularly that ridiculous affertion concerning Barrenness, in his Directory for Midwives, Book, 2. Sect. 2. at the end. printed. 1652. but left out of those which were lince printed. The words are thefe, I will tell you no more than I have known tryed, the cure is easie, and was done by the man only, who could not give his wife due benevolence, making water through his Wives Wedding Ring, fo shere was one superstition belped another.) may possibly be alledged to be fuch miltakes, as he, or rather fhe, in his name, did dif-own. For answer, 1. I conceive that it is a grofs reflection, upon her Husband, to make people believe, that he was fuch a fool, as could not keep his papers, till they had gone to the Press, with his own knowledge. 2. It is probable, that when Mistris Culpeper shall die, some of her r ations will, in her name, renounce that &pif of bers (which I found prefixed to the English Physician, the Treatise of Aurum Potabile, and the Directory for Midwives, all reprinted, 1656. after his death) because the would not have been fo much unchristian, as to have denicd

nied that book (Culpepers last Legacy) to be her Husbands, especially because it containes hone of bis mouted respects to the Colledge; which were flothing, but most unchristian and scurrilous railings against men, by serving of whom, he would have been honoured, but he was ever so foolish as to forsake this mercy.

Having called to remembrance, that Diffichen

of Cato's.

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Contra verbosos, noli contendere verbis. Sermo datur cunttis, animi sapientia paucis.

I will proceed no further. Farewell.

Post-script

# OSTSCRIPT

### GHOST. CULPEPERS

Animula vagula.



am confident, that fince thy arrival at the Elyfian fields, and conference with fo many able ferntators of natures mysteries, as are mentioned in thy book, entituled, Culpepers Ghoft, thou haft attained

the knowledge of fuch things, as thou wast not well acquainted with in this world (as appeareth from thy expressions, page 5. and 6. concerning Chymistrie) and therefore I will propose unto thee fome Querges, to which I defire thee to return apfwers with the first Poft.

Quer. 1. What is it in the Netle, which at the first touch offendeth a mans hand, and sudainly vesicateth the skin? seing Cantharides do veficar as ftrongly, though not fo foon. that you have faid of this in your English Physi-

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sian (which in the Epifile to the Reader, you affirmed to contain a reason for every thing, that is written) is this, Nettles are so well known, that they need no description at all they may

be found by feeling, in the darkest night.

Quer. 2. Why Cantharides, which do veficat but flowly, are so prejudicial to nature, when immoderatly used, not only internally, but also externally (as appeareth from their inimical operation upon the Bladder) and yet Nettles, which vesicat so sudainly, do no harm, when used as a good Pot-herb?

Quer. 3. Why the decoction of Nettles provoketh the Manstrua; seing the juyce of the leaves stayeth bleeding at the mouth? as you affirmed in your English Physician, without giving any reason, for averting the challenge of impro-

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Quer. 4. Why the fensitive plant, contracteth

it felf at the touch of man?

Quer. 5. Why recent Red Rofes, being boyled amongst Oyl, do not communicat their redness unto the Oyl, as Chamomel doth its greenness?

Quer, 6. Why the eyes of a Cas, and the flesh of many fishes, ar luminous in the dark, seing the most scintillent Diamond is desticient in this?

Quer. 7. Why the fleft of frefh-water fifes,

are not at all luminous in the dark?

Quer. 8. Why the spirits of Sulphur and Vitriol, do intend the redness of the Tintlure of Roles, when extracted by warm water.

Quer. 9:

Quer. 9. Why the smoak of inflamed Brima Bone, maketh a recent Rod-rofe of a white colour, when held unto it?

Quer. 10. Why the Oyl of Tartar, being infilled into the faid Tinthure, or put upon the whitned Rofe, destroyeth the reducts of the one,

and maketh both contract a green colour?

Quer. 11. Why the Tindure of Red-roles, having a little Allum dissolved into it, and tasted by a man, maketh his spittle of a green colour, seing the Allum did not alter the colour of the Tindure?

Quer. 12. Why Dogs which take much pleafure in killing of wilde fouls (or in serving such as kill them with Guns) as Plivers, &c. will ear

none of their flesh or bones?

Quer. 13. Why doth not the Sugar of Syrups, made of acide juyces (as of Limens, Sorrel, &c.) crystallize (after they have been boyled too much) as the Sugar of other Syrups, viz. the Syrup of

Violets, pale Rofes, &c.

Quer. 14. What is it in Aloe which is so eminently astringent, and stoppeth the flux of blood, when externally applyed to wounds, seing it is very purgative, when taken internally, and is denied to bamoproical persons, because of its opening of veins, making orifices upon them, as if it were correspond?

Quer. 15. Why doth the weather of every

Thurfday before the change?

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That is, if the Thursday before the change of the Moon ( whether the change upon Wednefday, Friday, or any other) be a fair day, such will the weather be all the next Moon. If there be rain. wind flow, hail, &c, in the morning, beforenoon, after-noon, or at night, such will the weather be at those times of the Moon, answering fuch times of the day. This I have often observed never to fail, excepting three times in the year, viz. I. at the end of March, the three laft dayes whereof are commonly called the borrowing dayes, and use to be tempeltuous. 2. In May, when there useth to be two or three dayes of bad weather (according to the proverb, Come it foon come it late, in May comes the Cow-quake) which are fo cold, that the Kine do tremble. 3. At the beginning of August, when there are much rains, which cause the Lammes flood. Surely thy skill in Aftrology will foon afford a reason for this?

Quer. 16. Why Antimony being vitrified, not only retaineth its vomitive quality, but also enjoyeth it in a superlative degree? seing all other things almost, do loss their primitive qualities, when reduced into Glass, by reason of the de-

struction of their feminal forms-

Quer. 17. What is it in the yoke of an Egg, which is the best (if not the only) mean, by which Turpentine is rendred dissolvable by an aqueous body?

Quer. 18. Why cannot Quick-filver, being once dissolved by the strongest corresives, be detailed in that condition when exposed to the

heat

heat of fire, seing Lead and all other minerals, being once so dissolved, are inseparable, by the

greatest violence of Vulcan?

Quer. 19. From whence proceed Worms, which are found in green Pees? for it is improbable, that they proceed from the fperm of fuch like animals, deposed upon the husk, containing them, feing there appeareth no blemish uponit, nor passage through it. And far less is it probable, that they are engendred in the Pees themselves; feing it is most certain, that omne Ens gignit fibi fimile, except there be a degeneration ; because of an aberration of mature, as when a more noble creature degenerateth into a less noble, of the same kind, as when Barley degenerateth into Oats, or when Worms, &cc. do breed in the bodies of animals, or in their carcafes after death, fecundum Harveum de Generatione animalium, Exercitat. I.

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Quer. 20. Why the feet of a Swan are so black, seeing all her feathers are most white? In answering to this, have a care, lest (reslecting upon your often approved, and by experience confirmed, Galenical remedies (as you wrote in your Ghost) and Meshod of physick, to which you made a Key of the softest mettal, and exposed it to sale, adorned with the roust of Ignorance and Tradition, particularly, chap. 6.) you attribute this blackness, to the melancholick bumor, which nature hath secenced to her feet. For I hope, that you, who was a Translator of Anatomists, will not so much injure

injure the Spien, which was Galen his receptacle of Melanchely ; neither afcribe the yellowness of her bill unto Choler, left you offend the Gall.

Quer. 21. Why doth the Heren bow its neck when it flieth; feing the Swan (which hath a greater body, and a longer neck) doth extend its neck to its full length in flying. Surely if you shall alledge, that the blackness of the Swans feet proceedeth from melancholy, you will be per-Swaded, that the Swan should rather bow its neck, for fear of receiving prejudice by extending it & For (according to Gaten) melancholy caufeth foarfulness.

Quer, 22. Why the Sheep of England have no horns, but tails which reach the ground? feing the Oxen and Kine have horns of Superla-

tive bigness.

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Quer. 23. Why wilde fowls of one kind are all of one colour, feing tame fowls are of most .

different colours?

Quer. 24. Why a man ganteth when he feeth another man do fo? yea, I heard of one, who could not forbear ganting, if the lid, or cover of a Stoup had been moved once or twice up and down before him.

Quer. 25. What is it in Oat-bread, which being imelied at by one who is taken by the

Nose by Mustard, easeth the trouble ?

Quer. 26. Why doth the feathers of Doves spoyl the feathers of all other birds, with which they are mixed ?

Quer. 27

Quer. 27. Why Coneys do repair most frequently out of their holes, to feed, only whilst the

Sea is ebbing?

Quer. 28. Is this opinion of the vulgars true, viz. that the treading of water-fowls out of the water, doth not facundat their Eggs? And if it be certain, what is the reason of it?

Quer. 29. Why a Ptivers breast (which is white in Harvest and Winter) becometh black in the Spring, and continueth so all the Summer?

Quer. 30. Why the Emes in Orkney (where the North-pole is elevated about fixty degrees) have ordinarily two Lambs, frequently three, and sometimes four? As I was informed by a Gentleman there, who had an Ewe, which at one time brought forth four Lambs, three whereof were lame in the fore-legs, and went on their knees.

Quer. 31. Why the North-wind doth not commove the Sen, fo greatly as other winds do?

Quer. 32. Why the West wind doth still calme

at night: when the air is not cloudy?

Quer. 33. Why persons which have had the Terman-feaver are still distempered before stormy weather; and whilst the East-wind bloweth?

Quer. 34. Why Sea-fowls extend their legs towards their tailes, in flying; and Land-fowls (the Heren and Lap-wing excepted) do contract their legs?

Quer. 35. Why are there no Moles in Ireland? or rather, why doth the earsh of Ireland kill Moles? For which reason some of the inha-

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trants of the South-west parts of Scotland, have
brought earth from Ireland, to put into their Gar-

dens, for that end.

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Quer. 36. Why in the Canicular dayes only a man cannot fee the vapor which proceedeth from his own, or anothers mouth or nostrils, in breath-

ing, when the Sun (hineth upon him?

Quer. 37. Why persons who die not violent deaths use to expire at the Full-sea, or at a low-water? This I have observed, seldom, or never to fail, and that within four or sive minuts of these times.

Quer. 38. Why the firongest Corrosives will not operat upon common Glass; seing Spanish or French Wines do operat upon the Glass of Anti-

mony?

Quer. 39. Why the bottom of a Por, which containeth a boyling liquor, is tractable by a mans hand; but becometh untractable when the liquor is poured out?

Quer. 40. What is the irrefragable reason of the Echo, its once or twice repeating a mans words

articulatly?

Quer. 41: Why in Fairay-Sound (betwix the Isles of Fairay and Etha in Orkney) the Sea runneth north-east for the space only of three hours in flowing, and nine hours south-west in ebbing? This is the course of the Tide only in the middle of the Sound, which is but one mile broad.

Quer. 42. Is it true that black Wool will admit of no other colour? And if so, what is the reason of it? Quer 4.3

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Quer. 43. Why the Jaundize is cured by me dicines of a yellow colour? as Rubarb, the juyce and flowers of Celledon, Saffron, &c.

Quer. 44. Why the males of birds of Prey are

less than the females?

Quer. 45. Why are not children, under two

no

years old, fick at Sea ?

If thou shalt give rational answers unto these Queress, I am consident, thou shalt gain more estimation, than by all thy labours under the Sun; and an act of indemnity for the many transgressions of thy Pen, which was only busied about things, the knowledge of which (as thou did'st reserve) was so stale in the world, before thou came into it thy self, that no delicat patter would have used it, when such Clusters of Grapes, might have been had, out of which, a more rational and rare Elixir, might have been extracted, for refreshing of the stomachs surfected with such musty and rancide fare, as you did alwayes set before them.

Ch: 46 38 hy the Galls of Cours file folling flage of the stand to the stand of the Morrowis, but for the art works to the Mount of 00 Be dutinery in the rotales Butter there of all fall ? CE Comoff offer by Dolignation) whom affer a to the to of Storell, and Janton yeters lat, will not ad offels po IC Soloman in the second of the s 40 (c re i n Note than they we able to full for thom plant; the standing . Ca. 53-79 by Rath & Dougt and Glade for Pomo Sayata then Gill to be wat the all miground as from the and the form of the long (at of siffing of ) Cot sough to elfe tion I Latogt in fooding forthe of Co 56 34 hy Spilord mil not rome night to fresh Belge it strent - the great trall of striking Captes ing for from the those is no appearant of any special Cary why 3al & Ralyhis Lofth of plantant grown and Traphandity, que mored in a mand portet, for his this this dayor?

The fire founded that of fire rannol well the fire of a pouler soffett, which renained nates? gall ex storoll which is Into, long the getried be made the folution of gal, Mark? Let If fish things at and puted & will probo all and Hyperricke, at the which are follow and of not Lit the roafen the of? Conserving the defloren falo and pulos Looks to page 49 Tobi IN by the grounds to b in frost south no graped in to Sept of the most part of the first former for the of the first former for the first former fo wholly the sale of the said on the land The the purhoot to Red me by and the logining of the Line of the mast and the fair of and formally also be and fooks, —

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The after language of the of the right of the righ 63. from the nost form land plante, (2 the brant Cooks, for the the famor of Coaled, Bood, of or her hand - they and officted on to far potenty they are roll on & Horspioner, who the horsens, Spreet, and by the

